

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478524

Luminaire Tested: **IFLD-S-SA6C-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478524  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

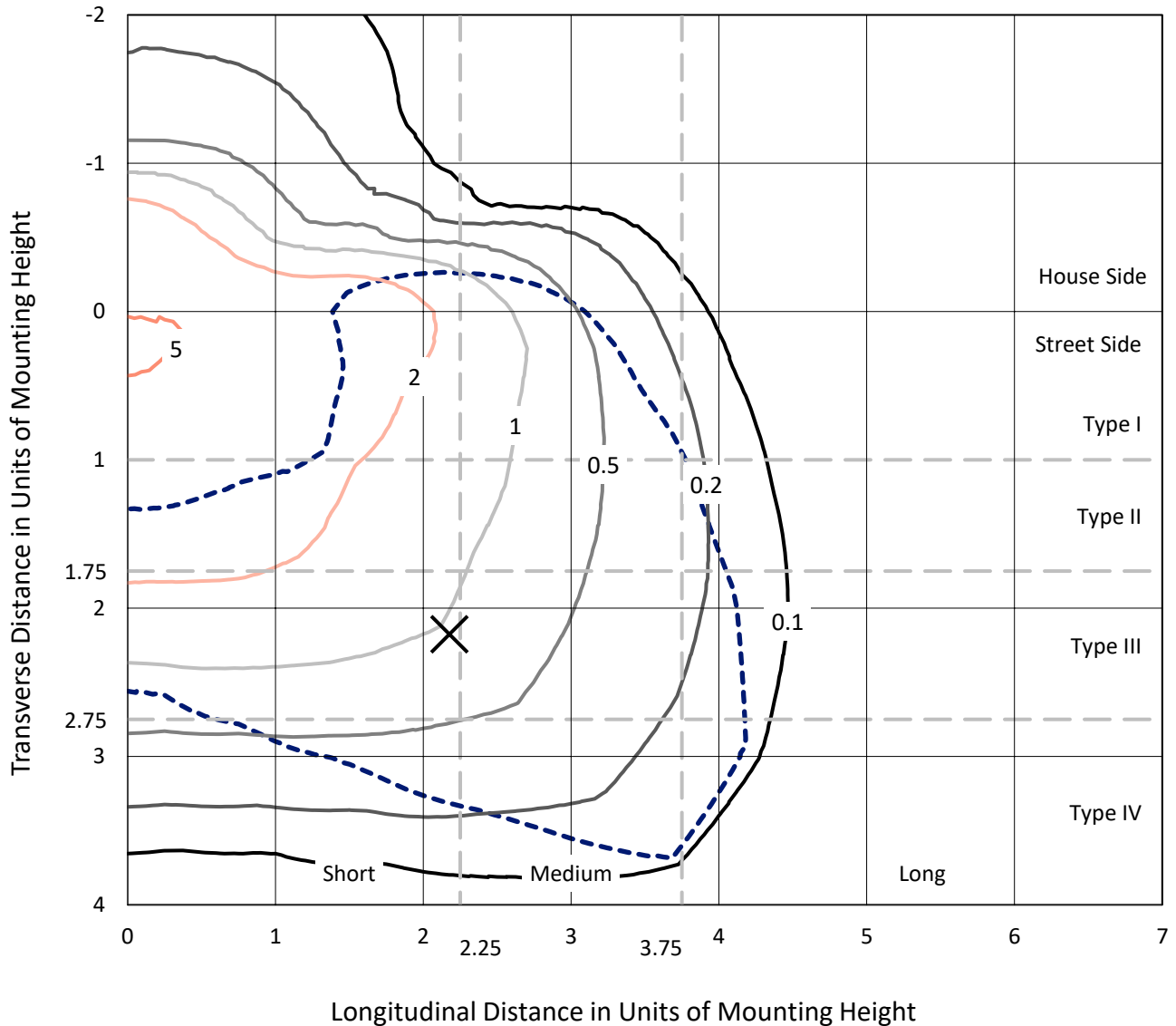
Lumens per Lamp: N/A  
Luminaire Lumens: 41424.3 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

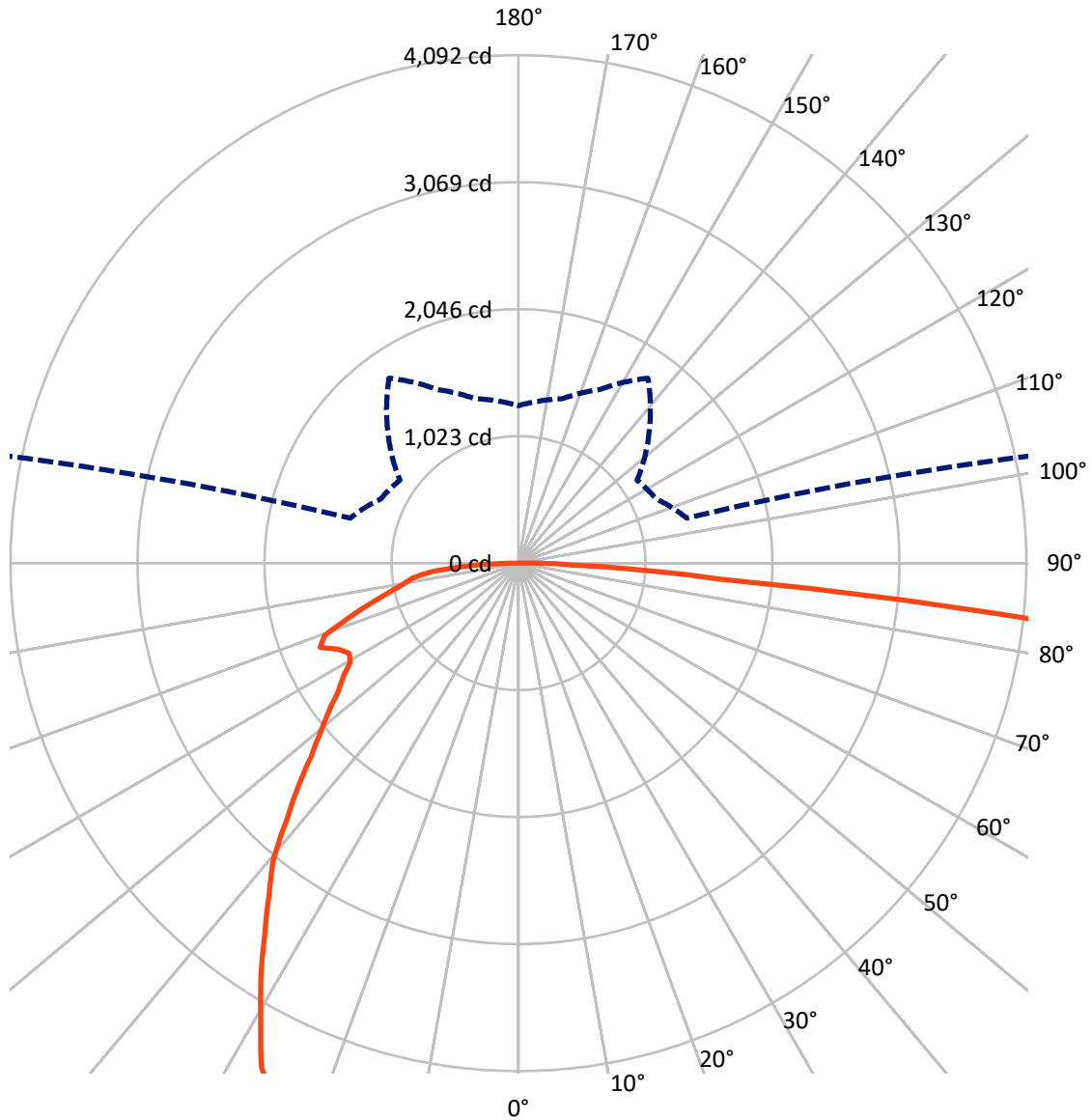
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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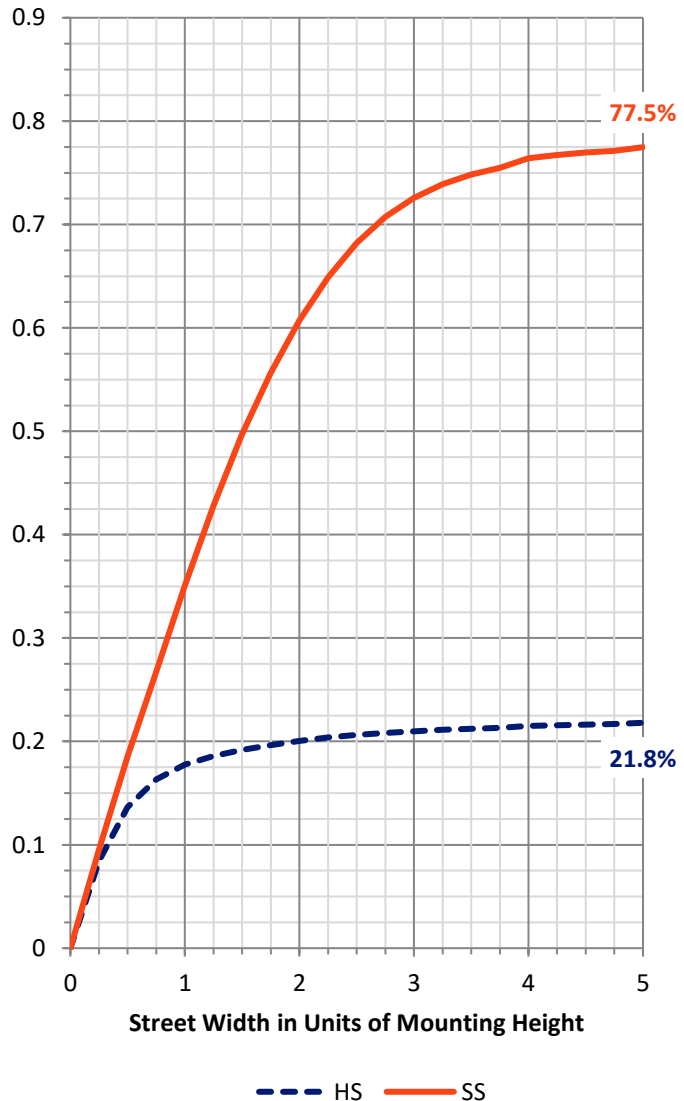
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9221.3	0.0	9221.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	32203.0	0.0	32203.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	41424.3	0.0	41424.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.5	1.1
10°-20°	1452.4	3.5
20°-30°	2452.6	5.9
30°-40°	3394.0	8.2
40°-50°	4854.8	11.7
50°-60°	7830.3	18.9
60°-70°	11548.5	27.9
70°-80°	8386.2	20.2
80°-90°	1069.0	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41424.3	100.0
0°-180°	41424.3	100.0

**Coefficient of Utilization**



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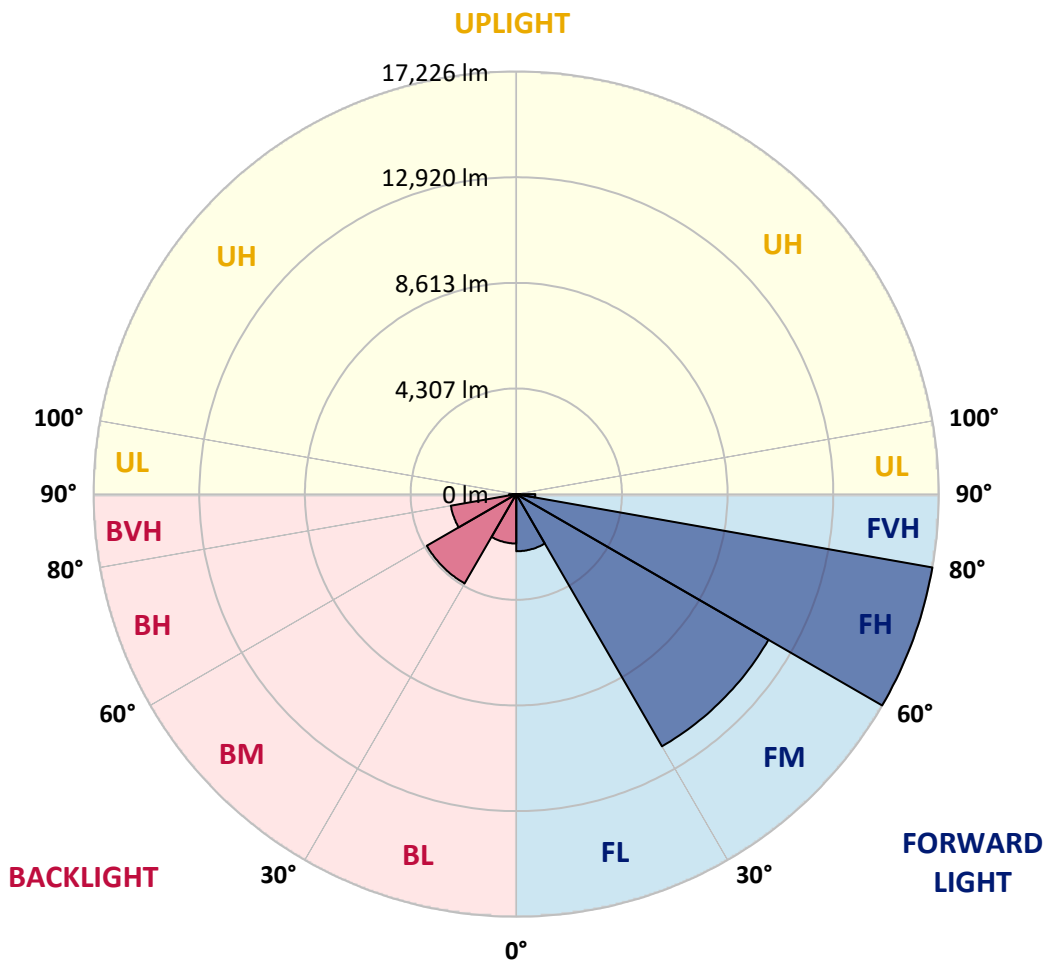
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2328.1	5.6			
FM (30°-60°)	11870.8	28.7			
FH (60°-80°)	17226.1	41.6			G5
FVH (80°-90°)	778.1	1.9			G5
BL (0°-30°)	2013.4	4.9	B3/2500		
BM (30°-60°)	4208.3	10.2	B3/5000		
BH (60°-80°)	2708.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	290.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0
2.5°	4493.8	4520.6	4493.8	4489.3	4444.6	4413.4	4440.2	4400.0	4355.3	4337.4	4297.2
5°	4904.7	4909.2	4860.1	4864.5	4770.7	4672.5	4690.3	4569.7	4440.2	4391.0	4310.6
7.5°	5324.6	5275.5	5204.0	5181.7	5034.3	4927.1	4913.7	4806.5	4605.4	4493.8	4382.1
10°	5597.1	5615.0	5498.8	5400.6	5275.5	5146.0	5141.5	4940.5	4824.3	4659.1	4516.1
12.5°	5838.3	5842.8	5744.5	5588.2	5431.8	5271.0	5293.4	5204.0	5007.5	4851.1	4708.2
15°	6025.9	5999.1	5891.9	5749.0	5583.7	5458.6	5445.2	5369.3	5204.0	5074.5	4837.7
17.5°	6079.5	6066.1	5958.9	5807.1	5646.3	5552.4	5588.2	5463.1	5396.1	5280.0	5052.1
20°	5976.8	5945.5	5927.7	5757.9	5641.8	5632.9	5601.6	5628.4	5516.7	5409.5	5244.2
22.5°	5789.2	5775.8	5766.9	5632.9	5579.2	5619.4	5673.1	5713.3	5695.4	5592.6	5405.0
25°	5597.1	5659.7	5601.6	5539.0	5615.0	5717.7	5704.3	5833.9	5833.9	5802.6	5646.3
27.5°	5731.1	5690.9	5646.3	5615.0	5641.8	5802.6	5793.7	5950.0	6008.1	5950.0	5771.3
30°	6066.1	6025.9	5896.4	5757.9	5722.2	5896.4	5941.1	6079.5	6106.3	5963.4	5811.5
32.5°	6696.0	6673.7	6468.2	6061.7	5842.8	5941.1	5963.4	6119.8	6097.4	6008.1	5945.5
35°	7629.6	7553.6	7267.8	6579.8	6097.4	5999.1	5941.1	6066.1	6151.0	6106.3	6048.3
37.5°	8652.5	8567.7	8214.8	7343.7	6557.5	6155.5	6110.8	6213.6	6311.8	6289.5	6168.9
40°	9630.8	9630.8	9313.6	8299.6	7241.0	6535.2	6544.1	6428.0	6517.3	6477.1	6499.4
42.5°	10595.7	10559.9	10430.4	9420.8	7973.5	7169.5	7026.5	6736.2	6897.0	6883.6	6914.9
45°	11573.9	11547.1	11511.4	10466.1	9023.3	8027.1	7951.2	7428.6	7576.0	7513.4	7647.5
47.5°	12355.6	12386.9	12386.9	11632.0	10144.5	9170.7	9059.0	8232.6	8514.0	8545.3	8576.6
50°	13021.2	13034.6	13021.2	12744.3	11395.2	10479.5	10251.7	9411.9	9693.3	9939.0	10224.9
52.5°	13941.4	13959.3	13896.7	13789.5	13092.7	11855.3	11600.7	10667.1	11243.4	11502.5	12016.2
55°	15076.0	14942.0	14825.9	14906.3	14723.1	13369.6	13106.1	11962.5	12829.1	13173.1	14200.5
57.5°	15286.0	15402.1	15696.9	16335.7	16599.3	14843.7	14691.9	13552.8	14620.4	14919.7	16635.0
60°	16027.5	15835.4	16559.1	17943.8	18238.6	16764.5	16608.2	15294.9	16402.7	16715.4	18881.9
62.5°	16514.4	16505.5	17577.5	19221.4	19891.4	18756.8	18439.7	17559.7	18328.0	18631.7	21329.8
65°	16371.4	16501.0	18403.9	19971.8	21271.7	21021.6	20838.4	19507.3	20521.3	20494.5	22924.5
67.5°	15067.1	15433.4	17881.3	20512.3	23326.5	23782.2	23724.1	22245.5	22303.6	21736.3	23634.7
70°	13258.0	13132.9	15670.1	19949.5	24353.9	27056.4	27043.0	24282.5	23907.2	22008.8	21597.8
72°	10184.7	10046.2	12132.3	17130.8	23813.4	28365.3	28767.3	25694.0	23889.4	20878.6	17841.1
72.5°	9246.6	9126.0	11203.2	16125.8	23214.8	28704.8	28517.1	25747.6	23701.7	20347.1	16666.3
75°	4257.0	4118.5	5597.1	9872.0	18109.1	25434.9	26073.7	24094.8	20699.9	16197.2	9983.7
77.5°	1268.6	1228.4	1800.2	3984.5	10524.2	18738.9	18984.6	18180.6	14450.7	8871.4	3703.1
80°	705.8	710.2	929.1	1492.0	4627.8	10832.4	11716.9	11230.0	7089.1	2930.3	1232.9
82.5°	393.1	415.4	580.7	884.5	2126.3	4971.7	5351.4	5159.4	2564.0	1375.8	674.5
85°	205.5	214.4	303.8	473.5	1206.1	1572.4	1617.0	1733.2	1331.2	938.1	361.8
87.5°	80.4	80.4	111.7	196.5	446.7	486.9	437.8	531.6	763.9	607.5	178.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0	4266.0
2.5°	4333.0	4297.2	4292.8	4234.7	4252.6	4203.4	4207.9	4199.0	4203.4	4194.5	4172.2
5°	4310.6	4283.8	4207.9	4257.0	4212.4	4274.9	4324.0	4306.2	4319.6	4315.1	4319.6
7.5°	4341.9	4306.2	4297.2	4270.4	4310.6	4337.4	4377.6	4489.3	4480.4	4493.8	4520.6
10°	4435.7	4395.5	4368.7	4408.9	4386.6	4471.4	4516.1	4574.2	4676.9	4681.4	4627.8
12.5°	4618.8	4592.0	4538.4	4547.4	4623.3	4650.1	4676.9	4712.7	4779.7	4766.3	4815.4
15°	4828.8	4770.7	4739.5	4730.5	4748.4	4779.7	4775.2	4810.9	4846.7	4877.9	4864.5
17.5°	4980.7	4904.7	4913.7	4958.3	4953.9	4944.9	4886.9	4869.0	4886.9	4904.7	4895.8
20°	5137.0	5146.0	5078.9	5038.7	5020.9	4931.5	4886.9	4833.3	4779.7	4806.5	4846.7
22.5°	5333.6	5293.4	5195.1	5074.5	4985.1	4931.5	4793.1	4699.3	4699.3	4726.1	4712.7
25°	5556.9	5472.0	5302.3	5083.4	4971.7	4743.9	4645.6	4632.2	4596.5	4636.7	4654.6
27.5°	5731.1	5655.2	5422.9	5052.1	4743.9	4560.8	4502.7	4484.8	4542.9	4547.4	4618.8
30°	5802.6	5780.3	5440.8	4971.7	4511.6	4216.8	4181.1	4261.5	4324.0	4417.8	4422.3
32.5°	5896.4	5905.3	5467.6	4784.1	4207.9	3913.1	3859.5	3957.7	4136.4	4212.4	4270.4
35°	6052.7	6097.4	5445.2	4551.8	3886.3	3604.8	3595.9	3622.7	3796.9	3930.9	4006.9
37.5°	6325.2	6316.3	5440.8	4274.9	3631.6	3336.8	3265.4	3274.3	3390.4	3502.1	3488.7
40°	6691.5	6655.8	5427.4	3913.1	3301.1	3109.0	2988.4	2943.7	2934.8	2903.5	2912.5
42.5°	7191.8	7120.4	5422.9	3546.8	3001.8	2796.3	2711.5	2595.3	2510.4	2349.6	2358.6
45°	7888.7	7763.6	5306.8	3202.8	2707.0	2537.2	2407.7	2322.8	2139.7	1938.7	1938.7
47.5°	8965.2	8558.7	5311.2	2823.1	2421.1	2282.6	2193.3	2045.9	1849.3	1688.5	1670.6
50°	10551.0	9621.9	5159.4	2523.8	2188.8	2095.0	2001.2	1831.5	1643.8	1532.2	1545.6
52.5°	12596.9	11207.6	5154.9	2255.8	2005.7	1938.7	1835.9	1684.0	1545.6	1474.1	1447.3
55°	15035.8	13307.1	5315.7	2036.9	1818.1	1782.3	1737.7	1612.6	1478.6	1416.0	1411.6
57.5°	17532.9	15357.4	5574.8	1880.6	1657.2	1684.0	1652.8	1554.5	1447.3	1375.8	1366.9
60°	19752.9	16983.4	5052.1	1693.0	1514.3	1572.4	1617.0	1532.2	1474.1	1469.6	1438.4
62.5°	21428.1	17680.3	3841.6	1550.0	1438.4	1545.6	1666.2	1719.8	1693.0	1728.7	1733.2
65°	22040.0	17260.4	2644.4	1474.1	1380.3	1608.1	1876.1	1858.3	1701.9	1634.9	1670.6
67.5°	21182.4	15558.5	1961.0	1384.8	1340.1	1737.7	1996.7	1773.4	1536.6	1527.7	1500.9
70°	18216.3	13186.5	1599.2	1291.0	1273.1	1666.2	1943.1	1643.8	1447.3	1389.2	1362.4
72°	14513.2	10269.6	1402.6	1224.0	1165.9	1487.5	1818.1	1541.1	1371.4	1299.9	1268.6
72.5°	13249.0	9519.1	1375.8	1192.7	1143.5	1447.3	1755.5	1509.8	1353.5	1291.0	1241.8
75°	7267.8	4873.5	1210.5	1094.4	964.9	1250.8	1626.0	1416.0	1277.6	1188.2	1179.3
77.5°	2702.5	1889.5	1045.3	969.3	835.3	1081.0	1478.6	1344.6	1161.4	1049.7	1027.4
80°	1036.3	996.1	853.2	817.5	701.3	947.0	1362.4	1206.1	987.2	875.5	839.8
82.5°	629.8	580.7	647.7	638.8	536.0	862.1	1282.0	1130.1	875.5	710.2	687.9
85°	344.0	344.0	451.2	433.3	375.2	687.9	969.3	750.5	553.9	455.6	464.6
87.5°	151.9	178.7	241.2	227.8	205.5	388.6	473.5	397.6	277.0	187.6	201.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)