

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: P478447

Luminaire Tested: **IFLD-S-SA6D-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478447  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

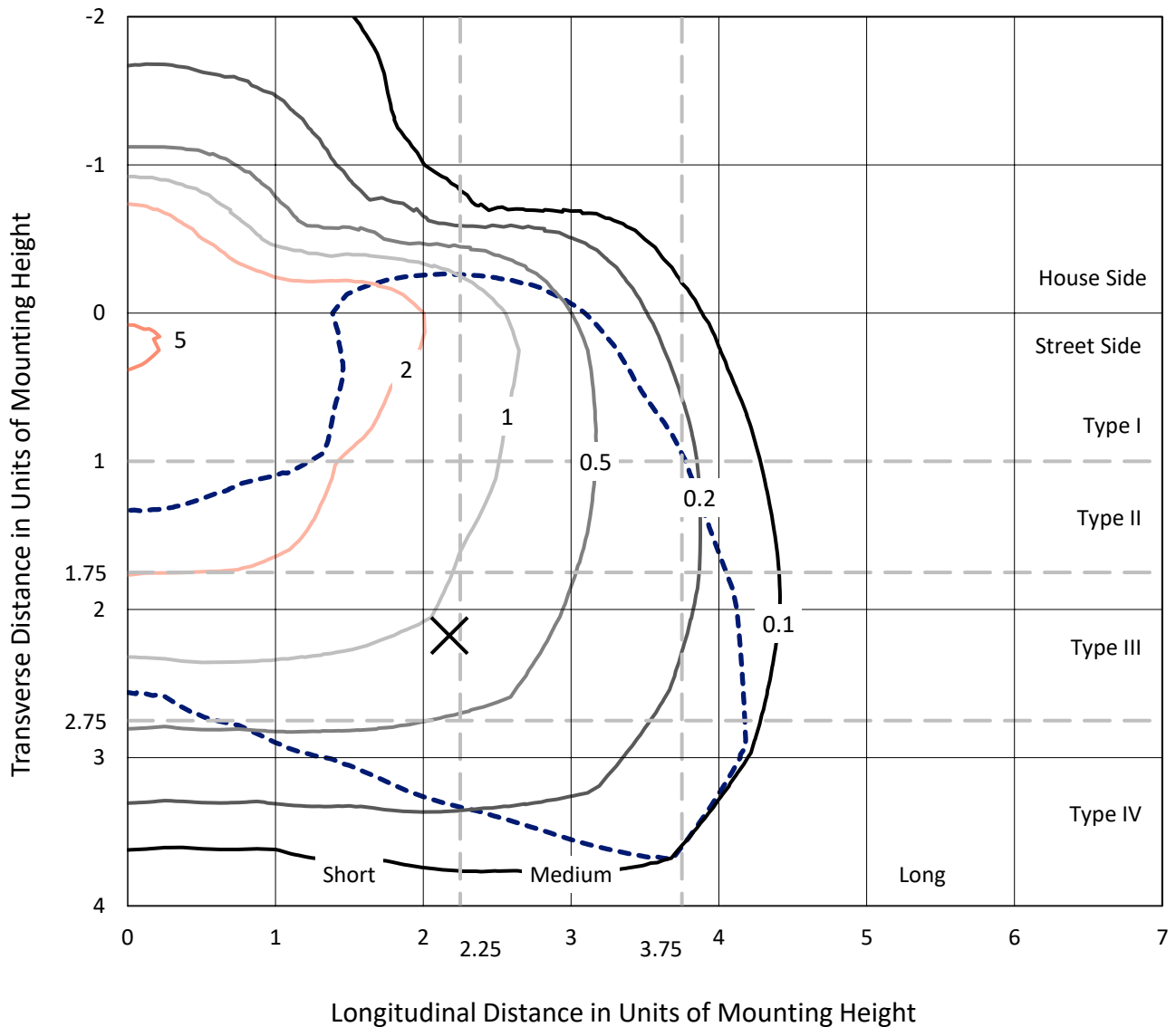
Lumens per Lamp: N/A  
Luminaire Lumens: 38649.4 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2  
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

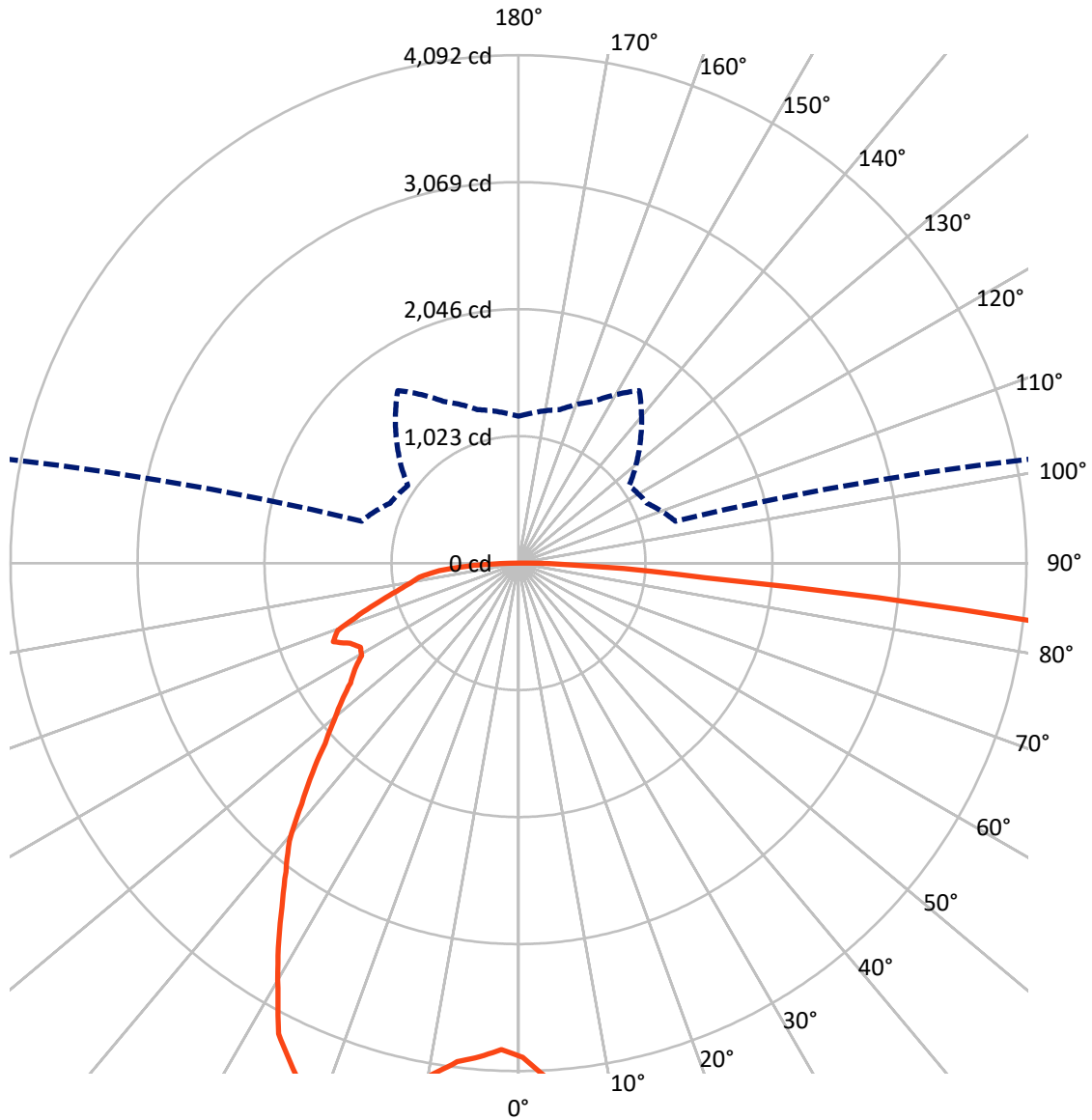
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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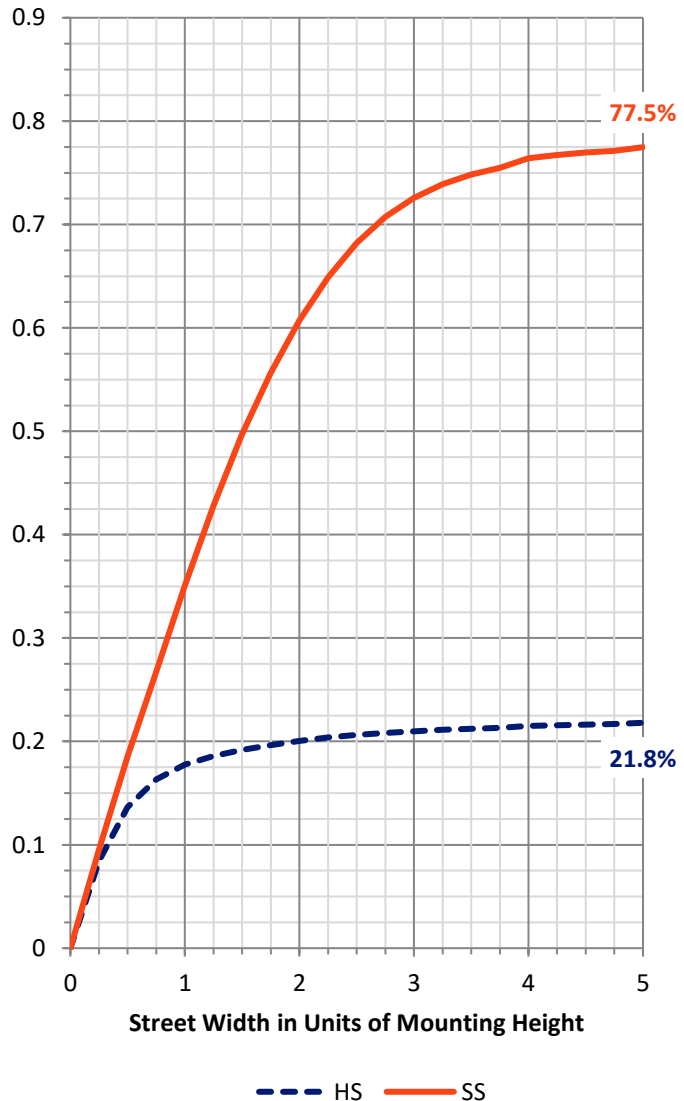
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8603.6	0.0	8603.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	30045.8	0.0	30045.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	38649.4	0.0	38649.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.3	1.1
10°-20°	1355.1	3.5
20°-30°	2288.3	5.9
30°-40°	3166.7	8.2
40°-50°	4529.6	11.7
50°-60°	7305.7	18.9
60°-70°	10774.9	27.9
70°-80°	7824.4	20.2
80°-90°	997.4	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°	38649.4	100.0
0°-180°	38649.4	100.0

**Coefficient of Utilization**



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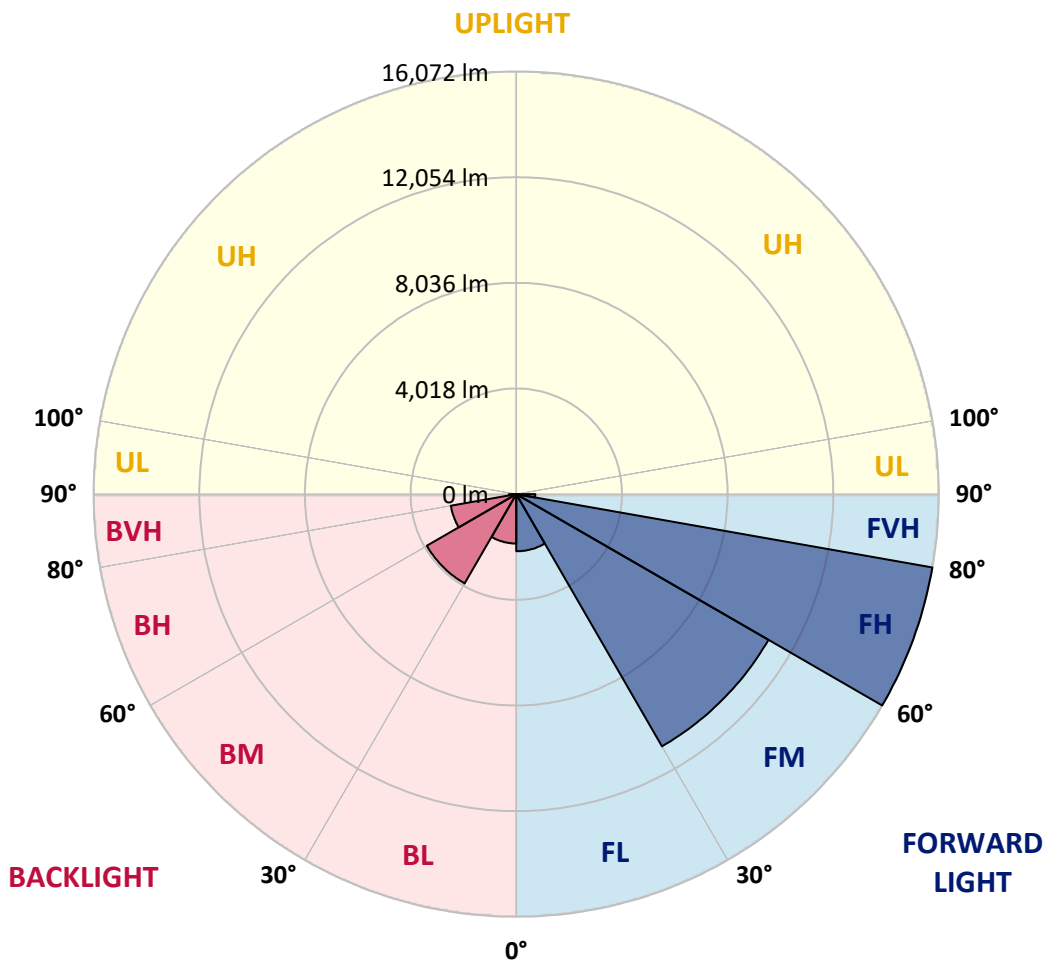
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.1	5.6			
FM (30°-60°)	11075.6	28.7			
FH (60°-80°)	16072.1	41.6			G5
FVH (80°-90°)	726.0	1.9			G4/750
BL (0°-30°)	1878.5	4.9	B3/2500		
BM (30°-60°)	3926.4	10.2	B3/5000		
BH (60°-80°)	2527.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	271.4	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°	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2
2.5°	4192.7	4217.7	4192.7	4188.6	4146.9	4117.7	4142.7	4105.2	4063.5	4046.9	4009.4
5°	4576.2	4580.3	4534.5	4538.7	4451.1	4359.4	4376.1	4263.6	4142.7	4096.9	4021.9
7.5°	4967.9	4922.1	4855.4	4834.6	4697.0	4597.0	4584.5	4484.5	4296.9	4192.7	4088.5
10°	5222.2	5238.8	5130.5	5038.8	4922.1	4801.2	4797.1	4609.5	4501.2	4346.9	4213.6
12.5°	5447.2	5451.4	5359.7	5213.8	5068.0	4917.9	4938.8	4855.4	4672.0	4526.2	4392.8
15°	5622.3	5597.3	5497.2	5363.9	5209.7	5093.0	5080.5	5009.6	4855.4	4734.5	4513.7
17.5°	5672.3	5659.8	5559.8	5418.1	5268.0	5180.5	5213.8	5097.1	5034.6	4926.3	4713.7
20°	5576.4	5547.3	5530.6	5372.2	5263.8	5255.5	5226.3	5251.3	5147.1	5047.1	4892.9
22.5°	5401.4	5388.9	5380.5	5255.5	5205.5	5243.0	5293.0	5330.5	5313.9	5218.0	5043.0
25°	5222.2	5280.5	5226.3	5168.0	5238.8	5334.7	5322.2	5443.1	5443.1	5413.9	5268.0
27.5°	5347.2	5309.7	5268.0	5238.8	5263.8	5413.9	5405.5	5551.4	5605.6	5551.4	5384.7
30°	5659.8	5622.3	5501.4	5372.2	5338.9	5501.4	5543.1	5672.3	5697.3	5563.9	5422.2
32.5°	6247.4	6226.6	6034.9	5655.6	5451.4	5543.1	5563.9	5709.8	5689.0	5605.6	5547.3
35°	7118.5	7047.6	6780.9	6139.1	5689.0	5597.3	5543.1	5659.8	5739.0	5697.3	5643.1
37.5°	8072.9	7993.7	7664.5	6851.8	6118.2	5743.1	5701.5	5797.3	5889.0	5868.2	5755.6
40°	8985.6	8985.6	8689.7	7743.6	6755.9	6097.4	6105.7	5997.4	6080.7	6043.2	6064.1
42.5°	9885.9	9852.5	9731.7	8789.7	7439.4	6689.2	6555.8	6284.9	6435.0	6422.5	6451.6
45°	10798.6	10773.6	10740.2	9765.0	8418.8	7489.4	7418.6	6930.9	7068.5	7010.1	7135.2
47.5°	11527.9	11557.1	11557.1	10852.8	9464.9	8556.4	8452.2	7681.1	7943.7	7972.9	8002.0
50°	12148.9	12161.4	12148.9	11890.5	10631.9	9777.5	9564.9	8781.4	9044.0	9273.2	9539.9
52.5°	13007.5	13024.2	12965.8	12865.8	12215.6	11061.2	10823.6	9952.5	10490.2	10731.9	11211.2
55°	14066.1	13941.1	13832.7	13907.7	13736.8	12474.0	12228.1	11161.2	11969.7	12290.6	13249.2
57.5°	14262.0	14370.3	14645.4	15241.4	15487.3	13849.4	13707.7	12644.9	13641.0	13920.2	15520.6
60°	14953.8	14774.6	15449.8	16741.8	17016.9	15641.5	15495.6	14270.3	15303.9	15595.7	17617.0
62.5°	15408.1	15399.8	16400.0	17933.8	18558.9	17500.3	17204.4	16383.4	17100.2	17383.6	19900.9
65°	15274.7	15395.6	17171.1	18633.9	19846.7	19613.3	19442.5	18200.5	19146.6	19121.6	21388.8
67.5°	14057.8	14399.5	16683.4	19138.2	21763.9	22189.0	22134.8	20755.3	20809.5	20280.2	22051.5
70°	12369.8	12253.1	14620.4	18613.1	22722.5	25244.0	25231.5	22655.8	22305.7	20534.4	20151.0
72°	9502.4	9373.2	11319.6	15983.3	22218.2	26465.1	26840.2	23972.8	22289.0	19480.0	16645.9
72.5°	8627.2	8514.7	10452.7	15045.5	21659.7	26781.8	26606.8	24022.8	22114.0	18984.0	15549.8
75°	3971.8	3842.6	5222.2	9210.7	16896.0	23731.1	24327.1	22480.7	19313.3	15112.2	9314.9
77.5°	1183.6	1146.1	1679.6	3717.6	9819.2	17483.6	17712.9	16962.7	13482.6	8277.1	3455.1
80°	658.5	662.7	866.9	1392.0	4317.8	10106.8	10932.0	10477.7	6614.2	2734.0	1150.3
82.5°	366.8	387.6	541.8	825.2	1983.8	4638.7	4992.9	4813.7	2392.3	1283.7	629.3
85°	191.7	200.1	283.4	441.8	1125.3	1467.0	1508.7	1617.1	1242.0	875.2	337.6
87.5°	75.0	75.0	104.2	183.4	416.8	454.3	408.4	496.0	712.7	566.8	166.7
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°	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2	3980.2
2.5°	4042.7	4009.4	4005.2	3951.0	3967.7	3921.8	3926.0	3917.7	3921.8	3913.5	3892.7
5°	4021.9	3996.9	3926.0	3971.8	3930.2	3988.5	4034.4	4017.7	4030.2	4026.0	4030.2
7.5°	4051.0	4017.7	4009.4	3984.4	4021.9	4046.9	4084.4	4188.6	4180.2	4192.7	4217.7
10°	4138.6	4101.0	4076.0	4113.6	4092.7	4171.9	4213.6	4267.8	4363.6	4367.8	4317.8
12.5°	4309.4	4284.4	4234.4	4242.8	4313.6	4338.6	4363.6	4397.0	4459.5	4447.0	4492.8
15°	4505.3	4451.1	4422.0	4413.6	4430.3	4459.5	4455.3	4488.6	4522.0	4551.2	4538.7
17.5°	4647.0	4576.2	4584.5	4626.2	4622.0	4613.7	4559.5	4542.8	4559.5	4576.2	4567.8
20°	4792.9	4801.2	4738.7	4701.2	4684.5	4601.2	4559.5	4509.5	4459.5	4484.5	4522.0
22.5°	4976.3	4938.8	4847.1	4734.5	4651.2	4601.2	4472.0	4384.5	4384.5	4409.5	4397.0
25°	5184.7	5105.5	4947.1	4742.9	4638.7	4426.1	4334.4	4321.9	4288.6	4326.1	4342.8
27.5°	5347.2	5276.3	5059.6	4713.7	4426.1	4255.3	4201.1	4184.4	4238.6	4242.8	4309.4
30°	5413.9	5393.0	5076.3	4638.7	4209.4	3934.3	3901.0	3976.0	4034.4	4121.9	4126.1
32.5°	5501.4	5509.7	5101.3	4463.6	3926.0	3650.9	3600.9	3692.6	3859.3	3930.2	3984.4
35°	5647.3	5689.0	5080.5	4246.9	3625.9	3363.4	3355.0	3380.0	3542.6	3667.6	3738.5
37.5°	5901.5	5893.2	5076.3	3988.5	3388.4	3113.3	3046.6	3054.9	3163.3	3267.5	3255.0
40°	6243.3	6209.9	5063.8	3650.9	3080.0	2900.7	2788.2	2746.5	2738.2	2709.0	2717.4
42.5°	6710.0	6643.4	5059.6	3309.2	2800.7	2609.0	2529.8	2421.5	2342.3	2192.2	2200.6
45°	7360.2	7243.5	4951.3	2988.3	2525.6	2367.3	2246.4	2167.2	1996.3	1808.8	1808.8
47.5°	8364.6	7985.4	4955.4	2634.0	2258.9	2129.7	2046.4	1908.8	1725.4	1575.4	1558.7
50°	9844.2	8977.3	4813.7	2354.8	2042.2	1954.7	1867.1	1708.8	1533.7	1429.5	1442.0
52.5°	11753.0	10456.8	4809.6	2104.7	1871.3	1808.8	1712.9	1571.2	1442.0	1375.4	1350.3
55°	14028.6	12415.7	4959.6	1900.5	1696.3	1662.9	1621.2	1504.6	1379.5	1321.2	1317.0
57.5°	16358.3	14328.7	5201.3	1754.6	1546.2	1571.2	1542.1	1450.4	1350.3	1283.7	1275.3
60°	18429.7	15845.7	4713.7	1579.6	1412.9	1467.0	1508.7	1429.5	1375.4	1371.2	1342.0
62.5°	19992.6	16495.9	3584.2	1446.2	1342.0	1442.0	1554.6	1604.6	1579.6	1612.9	1617.1
65°	20563.6	16104.1	2467.3	1375.4	1287.8	1500.4	1750.4	1733.8	1587.9	1525.4	1558.7
67.5°	19763.4	14516.2	1829.6	1292.0	1250.3	1621.2	1863.0	1654.6	1433.7	1425.4	1400.4
70°	16996.0	12303.1	1492.0	1204.5	1187.8	1554.6	1813.0	1533.7	1350.3	1296.2	1271.2
72°	13541.0	9581.6	1308.7	1142.0	1087.8	1387.9	1696.3	1437.9	1279.5	1212.8	1183.6
72.5°	12361.5	8881.4	1283.7	1112.8	1066.9	1350.3	1637.9	1408.7	1262.8	1204.5	1158.6
75°	6780.9	4547.0	1129.5	1021.1	900.2	1167.0	1517.1	1321.2	1192.0	1108.6	1100.3
77.5°	2521.5	1763.0	975.2	904.4	779.4	1008.6	1379.5	1254.5	1083.6	979.4	958.6
80°	966.9	929.4	796.0	762.7	654.3	883.6	1271.2	1125.3	921.1	816.9	783.5
82.5°	587.7	541.8	604.3	596.0	500.1	804.4	1196.1	1054.4	816.9	662.7	641.8
85°	320.9	320.9	420.9	404.3	350.1	641.8	904.4	700.2	516.8	425.1	433.4
87.5°	141.7	166.7	225.1	212.6	191.7	362.6	441.8	370.9	258.4	175.0	187.5
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)