

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: P478564

Luminaire Tested: **IFLD-S-SA6D-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478564
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

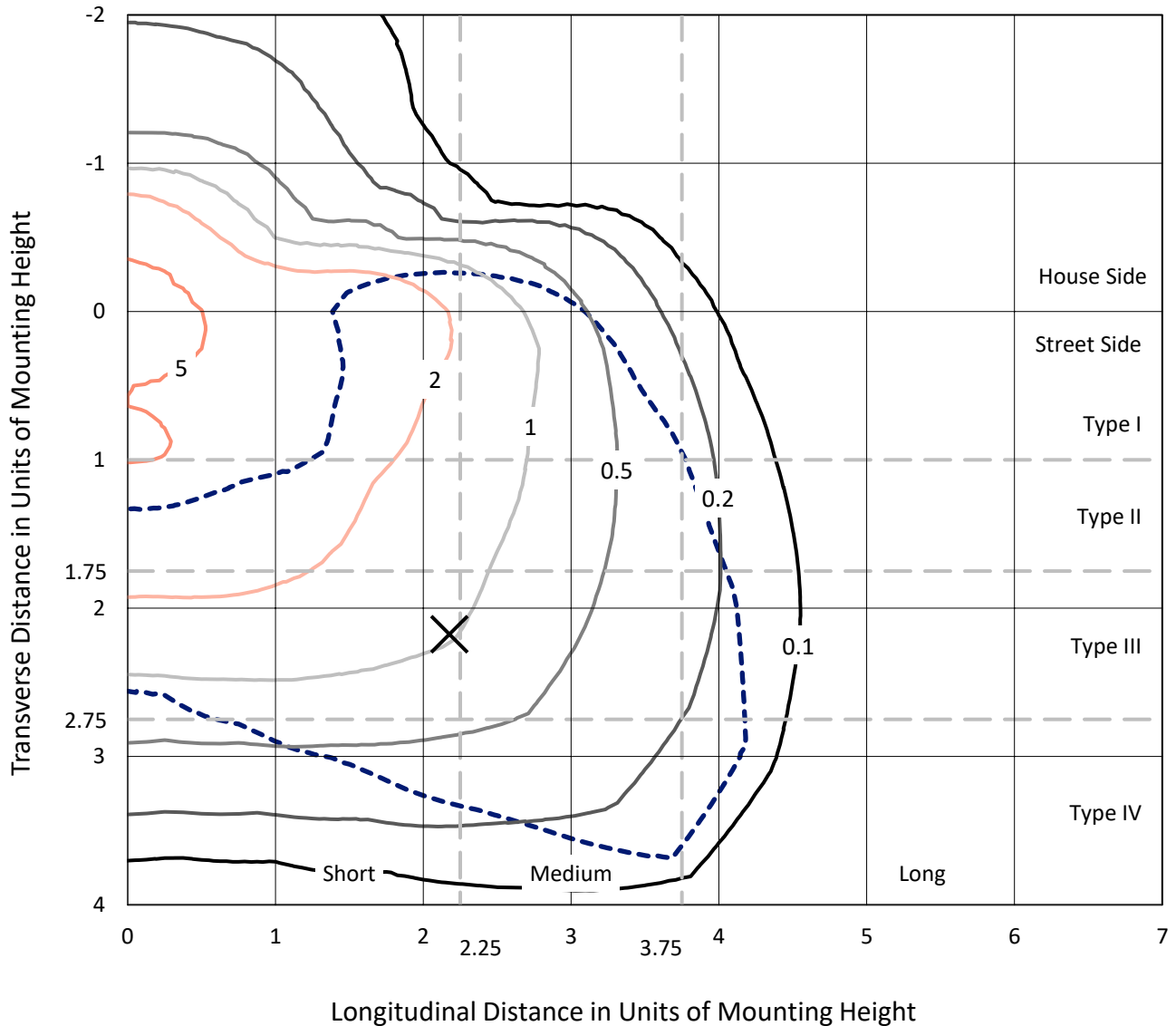
Lumens per Lamp: N/A
Luminaire Lumens: 46214.7 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

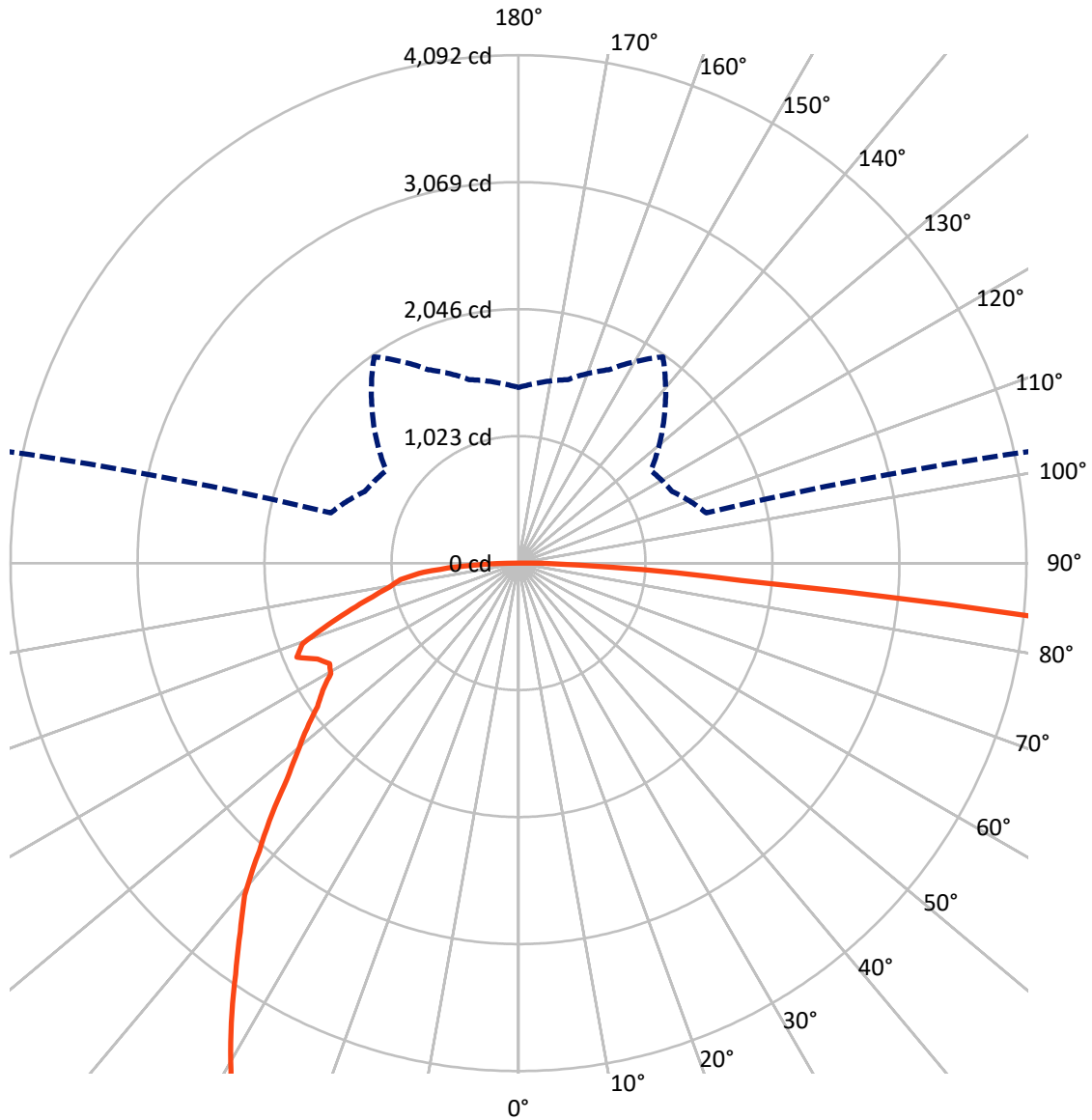
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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
House Side	Lumens	10287.7	0.0	10287.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35927.0	0.0	35927.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	46214.7	0.0	46214.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.0	1.1
10°-20°	1620.3	3.5
20°-30°	2736.2	5.9
30°-40°	3786.5	8.2
40°-50°	5416.2	11.7
50°-60°	8735.8	18.9
60°-70°	12884.0	27.9
70°-80°	9356.0	20.2
80°-90°	1192.7	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°	46214.7	100.0
0°-180°	46214.7	100.0

Coefficient of Utilization



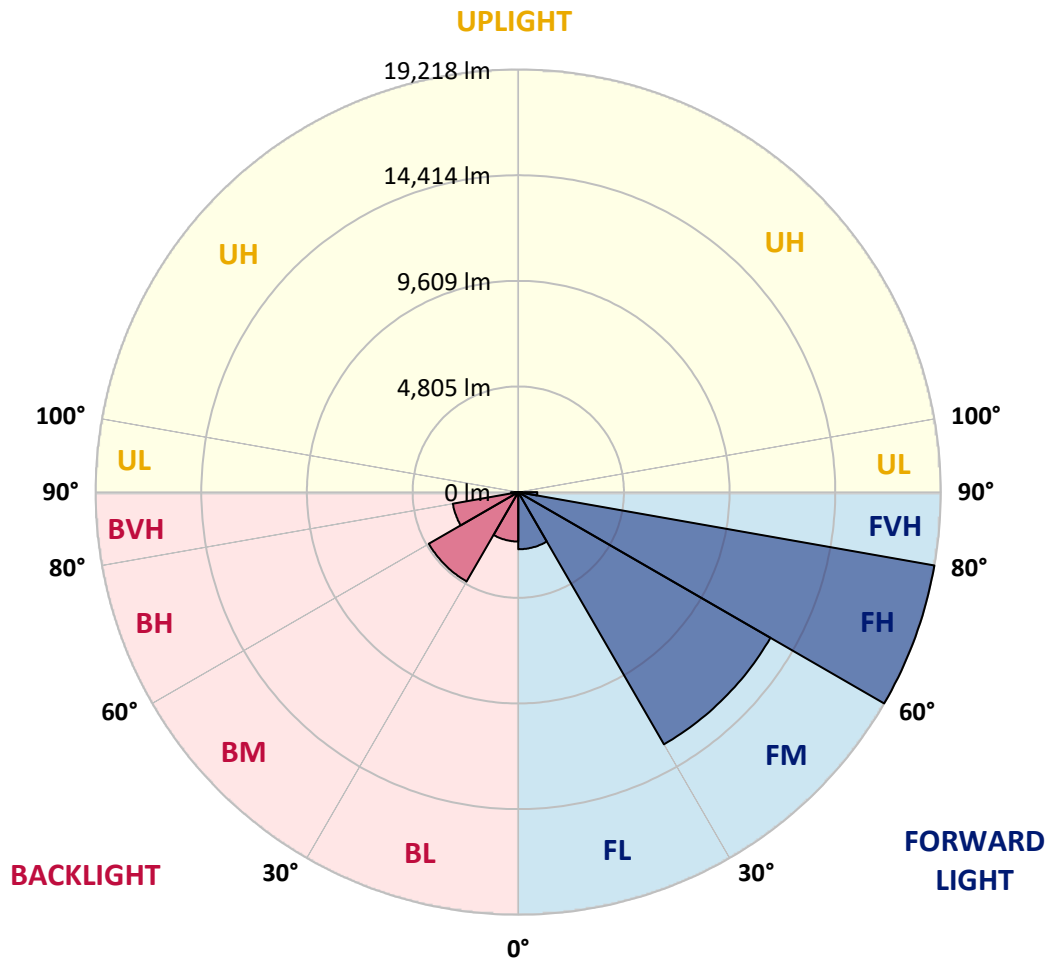
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2597.3	5.6			
FM (30°-60°)	13243.5	28.7			
FH (60°-80°)	19218.1	41.6			G5
FVH (80°-90°)	868.1	1.9			G5
BL (0°-30°)	2246.2	4.9	B3/2500		
BM (30°-60°)	4695.0	10.2	B3/5000		
BH (60°-80°)	3021.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	324.6	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°	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3
2.5°	5013.4	5043.3	5013.4	5008.5	4958.6	4923.7	4953.6	4908.8	4858.9	4839.0	4794.2
5°	5471.9	5476.9	5422.1	5427.1	5322.4	5212.8	5232.7	5098.2	4953.6	4898.8	4809.1
7.5°	5940.4	5885.6	5805.8	5780.9	5616.4	5496.8	5481.9	5362.3	5138.0	5013.4	4888.9
10°	6244.4	6264.3	6134.7	6025.1	5885.6	5741.0	5736.1	5511.8	5382.2	5197.8	5038.4
12.5°	6513.5	6518.5	6408.8	6234.4	6060.0	5880.6	5905.5	5805.8	5586.5	5412.1	5252.6
15°	6722.8	6692.9	6573.3	6413.8	6229.4	6089.9	6074.9	5990.2	5805.8	5661.3	5397.2
17.5°	6782.6	6767.6	6648.0	6478.6	6299.2	6194.5	6234.4	6094.9	6020.1	5890.5	5636.4
20°	6668.0	6633.1	6613.2	6423.8	6294.2	6284.2	6249.4	6279.3	6154.7	6035.1	5850.7
22.5°	6458.7	6443.7	6433.7	6284.2	6224.4	6269.3	6329.1	6373.9	6354.0	6239.4	6030.1
25°	6244.4	6314.1	6249.4	6179.6	6264.3	6378.9	6364.0	6508.5	6508.5	6473.6	6299.2
27.5°	6393.9	6349.0	6299.2	6264.3	6294.2	6473.6	6463.6	6638.1	6702.9	6638.1	6438.7
30°	6767.6	6722.8	6578.3	6423.8	6383.9	6578.3	6628.1	6782.6	6812.5	6653.0	6483.6
32.5°	7470.3	7445.4	7216.2	6762.7	6518.5	6628.1	6653.0	6827.4	6802.5	6702.9	6633.1
35°	8511.9	8427.2	8108.2	7340.8	6802.5	6692.9	6628.1	6767.6	6862.3	6812.5	6747.7
37.5°	9653.1	9558.4	9164.7	8192.9	7315.8	6867.3	6817.5	6932.1	7041.7	7016.8	6882.3
40°	10744.5	10744.5	10390.7	9259.4	8078.3	7290.9	7300.9	7171.3	7271.0	7226.1	7251.0
42.5°	11821.0	11781.1	11636.6	10510.3	8895.6	7998.6	7839.1	7515.2	7694.6	7679.6	7714.5
45°	12912.3	12882.4	12842.6	11676.4	10066.7	8955.4	8870.7	8287.6	8452.1	8382.3	8531.8
47.5°	13784.5	13819.3	13819.3	12977.1	11317.6	10231.2	10106.6	9184.7	9498.6	9533.5	9568.4
50°	14527.0	14542.0	14527.0	14218.0	12713.0	11691.4	11437.2	10500.3	10814.3	11088.4	11407.3
52.5°	15553.6	15573.6	15503.8	15384.2	14606.7	13226.3	12942.2	11900.7	12543.6	12832.6	13405.7
55°	16819.4	16669.9	16540.4	16630.1	16425.7	14915.7	14621.7	13345.9	14312.7	14696.5	15842.7
57.5°	17053.7	17183.2	17512.2	18224.8	18518.8	16560.3	16390.9	15120.1	16311.1	16645.0	18558.7
60°	17880.9	17666.6	18474.0	20018.9	20347.8	18703.2	18528.8	17063.6	18299.6	18648.4	21065.4
62.5°	18424.1	18414.2	19610.2	21444.2	22191.7	20925.9	20572.0	19590.3	20447.5	20786.3	23796.4
65°	18264.7	18409.2	20532.2	22281.4	23731.6	23452.5	23248.2	21763.1	22894.4	22864.5	25575.5
67.5°	16809.5	17218.1	19949.1	22884.4	26024.0	26532.4	26467.6	24818.0	24882.8	24249.9	26367.9
70°	14791.1	14651.6	17482.2	22256.5	27170.2	30185.3	30170.3	27090.5	26671.9	24553.9	24095.4
72°	11362.5	11208.0	13535.3	19111.9	26567.2	31645.5	32094.0	28665.3	26652.0	23293.1	19904.2
72.5°	10315.9	10181.4	12498.7	17990.6	25899.4	32024.2	31814.9	28725.1	26442.7	22700.0	18593.6
75°	4749.3	4594.8	6244.4	11013.6	20203.3	28376.3	29088.9	26881.2	23093.7	18070.3	11138.2
77.5°	1415.3	1370.5	2008.4	4445.3	11741.2	20905.9	21180.0	20283.0	16121.7	9897.3	4131.4
80°	787.4	792.4	1036.6	1664.5	5162.9	12085.1	13071.8	12528.6	7908.9	3269.2	1375.5
82.5°	438.6	463.5	647.9	986.7	2372.2	5546.7	5970.3	5756.0	2860.6	1534.9	752.5
85°	229.2	239.2	338.9	528.3	1345.6	1754.2	1804.0	1933.6	1485.1	1046.5	403.7
87.5°	89.7	89.7	124.6	219.3	498.4	543.2	488.4	593.0	852.2	677.8	199.3
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°	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3	4759.3
2.5°	4834.0	4794.2	4789.2	4724.4	4744.3	4689.5	4694.5	4684.5	4689.5	4679.5	4654.6
5°	4809.1	4779.2	4694.5	4749.3	4699.5	4769.2	4824.1	4804.1	4819.1	4814.1	4819.1
7.5°	4844.0	4804.1	4794.2	4764.3	4809.1	4839.0	4883.9	5008.5	4998.5	5013.4	5043.3
10°	4948.7	4903.8	4873.9	4918.8	4893.8	4988.5	5038.4	5103.1	5217.8	5222.7	5162.9
12.5°	5153.0	5123.1	5063.3	5073.2	5158.0	5187.9	5217.8	5257.6	5332.4	5317.4	5372.3
15°	5387.2	5322.4	5287.5	5277.6	5297.5	5332.4	5327.4	5367.3	5407.1	5442.0	5427.1
17.5°	5556.6	5471.9	5481.9	5531.7	5526.7	5516.8	5452.0	5432.1	5452.0	5471.9	5462.0
20°	5731.1	5741.0	5666.3	5621.4	5601.5	5501.8	5452.0	5392.2	5332.4	5362.3	5407.1
22.5°	5950.3	5905.5	5795.9	5661.3	5561.6	5501.8	5347.3	5242.7	5242.7	5272.6	5257.6
25°	6199.5	6104.8	5915.5	5671.3	5546.7	5292.5	5182.9	5167.9	5128.1	5172.9	5192.8
27.5°	6393.9	6309.2	6050.0	5636.4	5292.5	5088.2	5023.4	5003.5	5068.3	5073.2	5153.0
30°	6473.6	6448.7	6069.9	5546.7	5033.4	4704.5	4664.6	4754.3	4824.1	4928.7	4933.7
32.5°	6578.3	6588.2	6099.9	5337.4	4694.5	4365.6	4305.8	4415.4	4614.8	4699.5	4764.3
35°	6752.7	6802.5	6074.9	5078.2	4335.7	4021.7	4011.7	4041.6	4236.0	4385.5	4470.2
37.5°	7056.7	7046.7	6069.9	4769.2	4051.6	3722.7	3643.0	3652.9	3782.5	3907.1	3892.1
40°	7465.3	7425.5	6055.0	4365.6	3682.8	3468.5	3334.0	3284.2	3274.2	3239.3	3249.3
42.5°	8023.5	7943.8	6050.0	3956.9	3348.9	3119.7	3025.0	2895.4	2800.7	2621.3	2631.3
45°	8800.9	8661.4	5920.4	3573.2	3020.0	2830.6	2686.1	2591.4	2387.1	2162.9	2162.9
47.5°	10002.0	9548.5	5925.4	3149.6	2701.1	2546.6	2446.9	2282.5	2063.2	1883.8	1863.8
50°	11771.1	10734.5	5756.0	2815.7	2441.9	2337.3	2232.6	2043.3	1833.9	1709.4	1724.3
52.5°	14053.6	12503.7	5751.0	2516.7	2237.6	2162.9	2048.2	1878.8	1724.3	1644.6	1614.7
55°	16774.6	14846.0	5930.4	2272.5	2028.3	1988.4	1938.6	1799.1	1649.6	1579.8	1574.8
57.5°	19560.4	17133.4	6219.5	2098.1	1848.9	1878.8	1843.9	1734.3	1614.7	1534.9	1525.0
60°	22037.2	18947.4	5636.4	1888.8	1689.4	1754.2	1804.0	1709.4	1644.6	1639.6	1604.7
62.5°	23906.0	19724.8	4285.8	1729.3	1604.7	1724.3	1858.9	1918.7	1888.8	1928.6	1933.6
65°	24588.8	19256.4	2950.3	1644.6	1539.9	1794.1	2093.1	2073.2	1898.7	1824.0	1863.8
67.5°	23631.9	17357.7	2187.8	1544.9	1495.1	1938.6	2227.6	1978.5	1714.3	1704.4	1674.5
70°	20322.9	14711.4	1784.1	1440.2	1420.3	1858.9	2167.8	1833.9	1614.7	1549.9	1520.0
72°	16191.5	11457.2	1564.8	1365.5	1300.7	1659.5	2028.3	1719.3	1529.9	1450.2	1415.3
72.5°	14781.2	10619.9	1534.9	1330.6	1275.8	1614.7	1958.5	1684.4	1510.0	1440.2	1385.4
75°	8108.2	5437.0	1350.5	1221.0	1076.4	1395.4	1814.0	1579.8	1425.3	1325.6	1315.7
77.5°	3015.0	2108.0	1166.1	1081.4	931.9	1206.0	1649.6	1500.0	1295.7	1171.1	1146.2
80°	1156.2	1111.3	951.9	912.0	782.4	1056.5	1520.0	1345.6	1101.4	976.8	936.9
82.5°	702.7	647.9	722.6	712.6	598.0	961.8	1430.3	1260.8	976.8	792.4	767.5
85°	383.7	383.7	503.3	483.4	418.6	767.5	1081.4	837.2	618.0	508.3	518.3
87.5°	169.4	199.3	269.1	254.2	229.2	433.6	528.3	443.5	309.0	209.3	224.3
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)