

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: P319741

Luminaire Tested: **GAN-SA7D-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54884 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

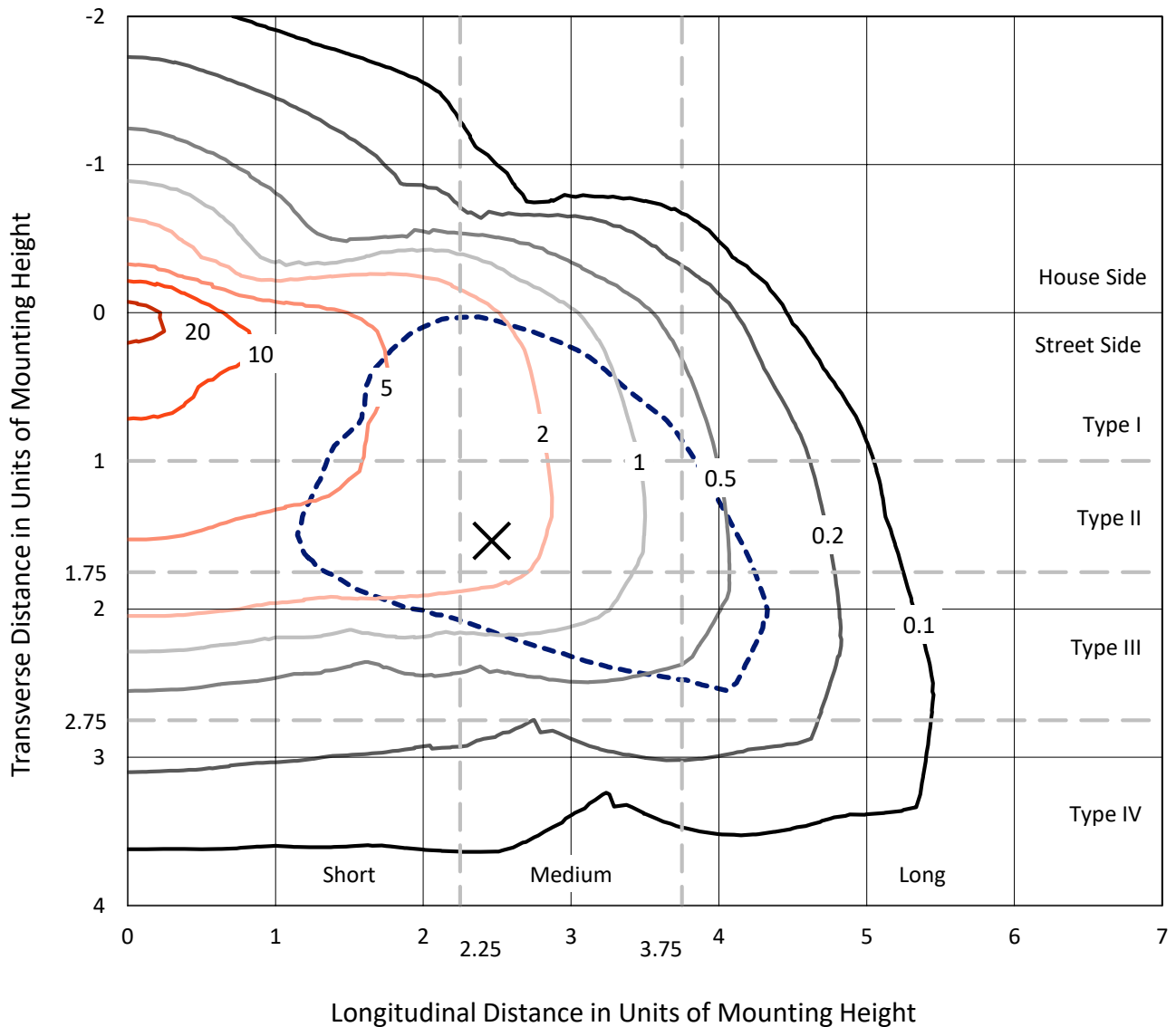
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

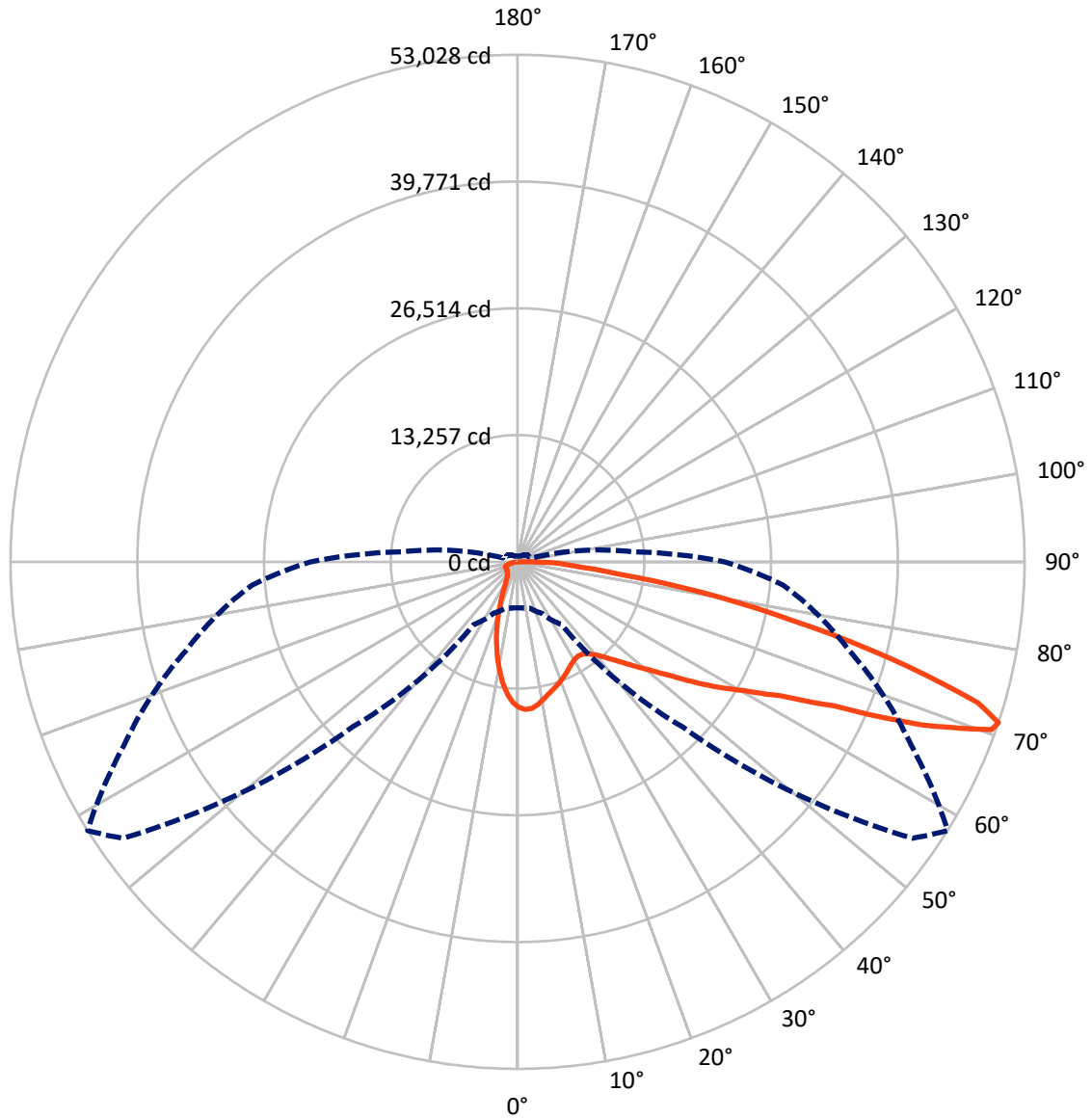
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8205.5	0.0	8205.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	46678.5	0.0	46678.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	54884.0	0.0	54884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1311.9	2.4
10°-20°	2917.1	5.3
20°-30°	3707.3	6.8
30°-40°	4722.4	8.6
40°-50°	6696.6	12.2
50°-60°	10363.2	18.9
60°-70°	14108.2	25.7
70°-80°	9411.8	17.1
80°-90°	1645.5	3.0
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°	54884.0	100.0
0°-180°	54884.0	100.0

Coefficient of Utilization

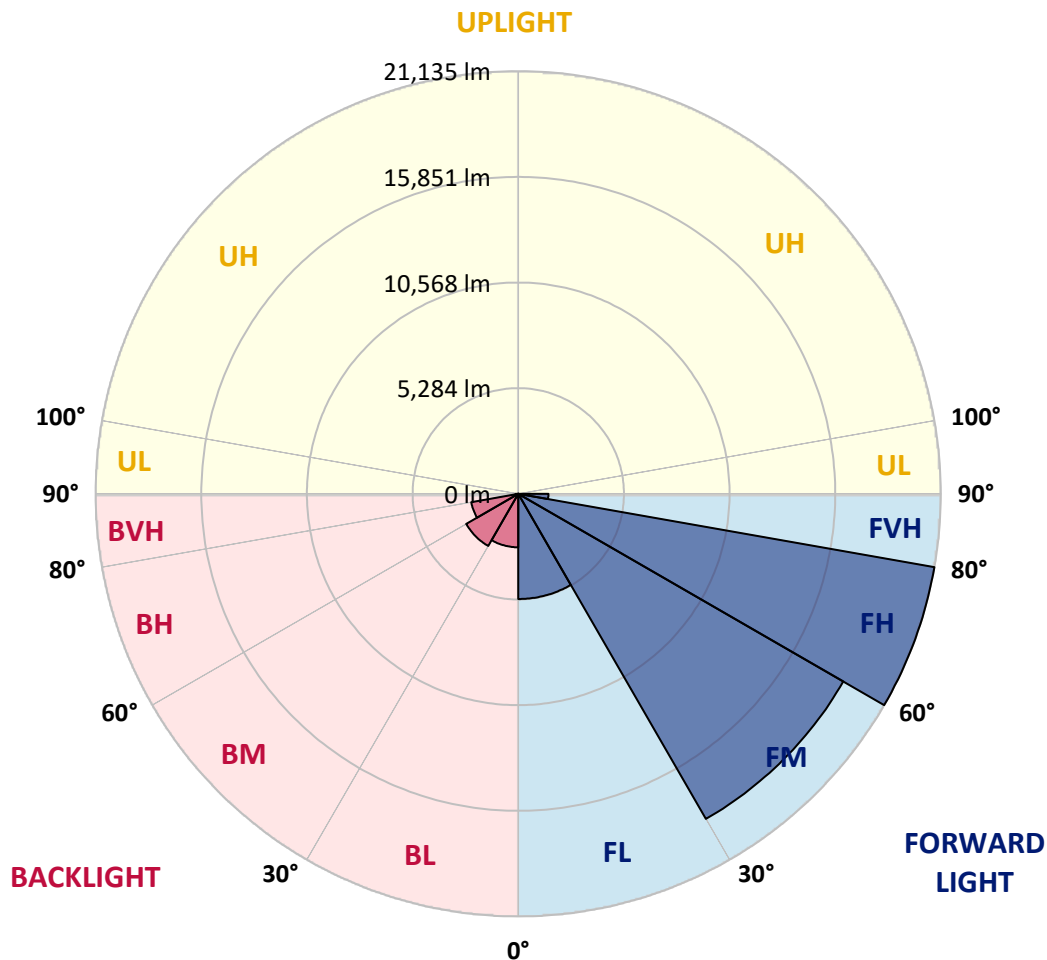


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5261.5	9.6			
FM (30°-60°)	18773.0	34.2			
FH (60°-80°)	21135.2	38.5			G5
FVH (80°-90°)	1508.8	2.7			G5
BL (0°-30°)	2674.8	4.9	B4/5000		
BM (30°-60°)	3009.2	5.5	B3/5000		
BH (60°-80°)	2384.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	136.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5
2.5°	15609.9	15588.9	15596.5	15581.3	15544.9	15508.6	15455.1	15464.6	15390.1	15279.2	15141.5
5°	15315.5	15307.9	15365.2	15397.7	15424.5	15403.5	15388.2	15407.3	15298.3	15145.4	14906.4
7.5°	14698.0	14613.9	14686.5	14795.5	14898.7	14977.1	15080.4	15093.7	15024.9	14864.3	14550.8
10°	13820.5	13740.2	13847.2	14017.4	14223.9	14411.2	14619.6	14657.8	14671.2	14525.9	14145.5
12.5°	12910.5	12849.3	12956.3	13195.3	13537.5	13826.2	14158.9	14216.2	14334.8	14237.2	13770.8
15°	12096.0	12073.1	12203.1	12438.2	12832.1	13273.7	13753.6	13858.7	14059.5	14027.0	13478.3
17.5°	11392.5	11386.7	11486.2	11732.8	12168.7	12726.9	13350.2	13528.0	13826.2	13864.4	13237.4
20°	10868.6	10857.2	10926.0	11107.6	11556.9	12189.7	12914.3	13159.0	13589.1	13723.0	12988.8
22.5°	10587.6	10585.7	10587.6	10673.6	11040.7	11629.5	12489.9	12788.1	13357.8	13610.2	12713.5
25°	10539.8	10534.1	10492.0	10482.5	10690.8	11161.1	12069.3	12398.1	13138.0	13531.8	12451.6
27.5°	10664.1	10671.7	10616.3	10526.4	10568.5	10853.3	11704.1	12055.9	12962.1	13516.5	12270.0
30°	10922.2	10918.3	10870.6	10776.9	10694.7	10738.6	11444.1	11795.9	12843.5	13583.4	12145.7
32.5°	11207.0	11228.1	11218.5	11166.9	11044.5	10868.6	11365.7	11709.8	12809.1	13744.0	12092.2
35°	11549.2	11572.2	11641.0	11681.2	11537.8	11254.8	11533.9	11832.2	12908.5	14046.1	12178.2
37.5°	11874.3	11933.5	12126.6	12296.8	12174.4	11859.0	11981.3	12193.5	13216.3	14522.1	12409.6
40°	12249.0	12300.6	12616.0	12977.4	12958.2	12631.3	12702.1	12843.5	13759.3	15204.6	12828.2
42.5°	12617.9	12721.2	13178.1	13690.5	13837.7	13549.0	13661.8	13736.4	14524.0	16108.9	13558.6
45°	13109.3	13220.2	13854.9	14472.4	14816.5	14654.0	14833.7	14862.4	15485.7	17340.1	14619.6
47.5°	13853.0	13979.2	14719.0	15367.1	15892.9	15910.1	16206.4	16194.9	16686.3	18749.1	15956.0
50°	15011.5	15193.2	15799.2	16405.2	17043.8	17399.4	17795.1	17739.7	18125.9	20249.9	17495.0
52.5°	16529.5	16613.6	17062.9	17510.3	18303.7	19100.9	19668.7	19619.0	19758.6	21792.7	19242.4
55°	18102.9	18166.0	18351.5	18596.2	19663.0	20963.0	22163.6	22085.2	21731.5	23394.8	20968.7
57.5°	19517.7	19645.8	19773.9	19875.2	21031.8	22909.2	24715.9	24721.6	23872.8	25123.1	22752.5
60°	19737.5	19850.3	20697.3	21496.4	23373.8	25505.5	27447.9	27390.5	26088.6	26998.6	24740.7
62.5°	17447.2	17701.4	19116.2	21242.1	25629.7	30254.4	30933.1	30862.3	28738.3	29310.0	27055.9
65°	12503.2	12791.9	14499.2	17693.8	24536.2	35487.0	37222.9	36270.9	32351.6	32152.8	29766.9
67.5°	7213.3	7282.1	8022.0	10587.6	18682.2	35760.4	46818.3	45485.8	37962.8	35378.0	31093.7
70°	5333.9	5332.0	5507.9	6515.4	10109.7	29185.7	51381.8	52576.7	43870.3	36439.1	29218.2
71°	4823.5	4829.2	5026.1	5930.4	8006.7	24429.1	50412.5	53027.9	45426.5	35915.3	27860.8
72.5°	4125.7	4144.8	4418.2	5318.7	6735.3	16846.9	46237.1	50320.8	46164.5	34622.9	25736.8
75°	3129.6	3173.6	3552.1	4483.2	6156.0	8543.9	33934.6	40182.4	41010.2	30550.7	19123.8
77.5°	2233.0	2282.7	2710.9	3770.1	5852.1	6439.0	22725.7	29310.0	30179.8	19578.8	8626.1
80°	1410.9	1470.2	1793.3	2999.6	5498.4	6114.0	14281.2	19701.2	16456.9	6265.0	2194.8
82.5°	827.8	873.7	1112.7	1959.6	4490.8	5888.4	8402.4	10920.3	6404.6	1892.7	998.0
85°	479.9	500.9	694.0	1248.4	3261.5	5557.6	6173.2	6104.4	2779.8	925.3	472.2
87.5°	223.7	248.5	411.0	651.9	1810.5	4028.2	4878.9	4215.5	1728.3	434.0	221.8
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°	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5	15206.5
2.5°	15074.6	15042.1	14906.4	14785.9	14659.8	14495.3	14313.7	14290.8	14179.9	14200.9	14162.7
5°	14776.4	14694.2	14367.3	14070.9	13721.1	13407.5	13067.2	12910.5	12684.9	12669.6	12612.2
7.5°	14350.0	14197.1	13690.5	13128.4	12566.3	12031.0	11501.4	11153.5	10797.9	10646.9	10633.5
10°	13870.2	13610.2	12864.6	12032.9	11222.3	10440.4	9683.3	9123.2	8618.4	8379.5	8369.9
12.5°	13415.2	13030.9	12008.1	10876.3	9767.4	8754.2	7716.1	6980.0	6347.2	6135.0	6045.1
15°	13029.0	12487.9	11174.5	9727.3	8381.4	6974.3	5792.8	5018.5	4433.5	4230.8	4192.6
17.5°	12654.3	11958.4	10320.0	8566.8	6939.9	5393.2	4209.8	3634.4	3322.7	3240.5	3238.6
20°	12281.5	11413.5	9427.1	7379.6	5546.2	4033.9	3236.7	2978.6	2873.5	2863.9	2848.6
22.5°	11859.0	10836.1	8488.4	6188.5	4328.3	3171.7	2751.1	2647.9	2634.5	2668.9	2668.9
25°	11463.2	10262.6	7536.4	5022.3	3366.7	2645.9	2456.7	2435.6	2472.0	2533.1	2538.9
27.5°	11094.2	9710.1	6607.2	3986.1	2697.6	2330.5	2252.1	2277.0	2342.0	2412.7	2414.6
30°	10790.3	9188.2	5704.8	3141.1	2278.9	2095.3	2082.0	2131.7	2202.4	2257.8	2271.2
32.5°	10555.1	8742.7	4833.1	2525.5	2005.5	1919.5	1930.9	1973.0	2017.0	2047.5	2068.6
35°	10446.1	8360.3	4028.2	2129.8	1831.5	1783.7	1799.0	1822.0	1841.1	1864.0	1881.2
37.5°	10465.2	8064.0	3309.3	1883.1	1714.9	1690.0	1690.0	1690.0	1690.0	1701.5	1703.4
40°	10643.0	7893.9	2724.3	1726.4	1636.5	1609.7	1588.7	1569.6	1554.3	1561.9	1558.1
42.5°	11098.1	7878.6	2296.1	1627.0	1573.4	1529.4	1487.4	1460.6	1441.5	1449.2	1453.0
45°	11870.4	8069.8	2007.4	1556.2	1514.2	1447.2	1393.7	1365.0	1351.6	1376.5	1380.3
47.5°	12870.3	8486.5	1831.5	1504.6	1458.7	1370.8	1313.4	1286.6	1290.5	1326.8	1336.4
50°	14158.9	9163.3	1747.4	1472.1	1420.5	1305.8	1246.5	1223.6	1235.0	1286.6	1298.1
52.5°	15573.6	10138.3	1757.0	1462.5	1395.6	1258.0	1194.9	1168.1	1187.2	1235.0	1244.6
55°	17206.3	11310.3	1915.6	1475.9	1359.3	1227.4	1152.8	1106.9	1122.2	1166.2	1173.9
57.5°	19020.6	12652.4	2234.9	1472.1	1313.4	1198.7	1108.8	1040.0	1051.5	1078.3	1085.9
60°	20909.5	14273.6	2730.1	1483.6	1292.4	1164.3	1049.6	963.6	959.7	982.7	986.5
62.5°	23176.9	16149.1	3296.0	1491.2	1305.8	1120.3	971.2	887.1	875.6	881.3	885.2
65°	25513.1	17506.4	3083.7	1460.6	1347.8	1084.0	902.4	812.5	791.5	787.7	789.6
67.5°	25585.8	16051.6	2162.3	1399.4	1365.0	1064.9	850.8	749.4	715.0	701.6	699.7
70°	22945.5	13040.5	1684.3	1334.4	1296.2	1034.3	803.0	697.8	646.2	625.2	623.3
71°	21657.0	12004.3	1596.4	1301.9	1244.6	1003.7	781.9	674.9	621.3	598.4	594.6
72.5°	19636.2	10761.6	1489.3	1250.3	1145.2	925.3	741.8	642.4	586.9	560.2	554.4
75°	14092.0	7037.4	1279.0	1114.6	948.3	738.0	650.0	577.4	529.6	497.1	493.2
77.5°	5429.5	2800.8	967.4	927.2	726.5	577.4	535.3	499.0	464.6	432.1	430.2
80°	1678.6	1252.2	705.5	697.8	525.7	430.2	416.8	407.2	393.8	359.4	351.8
82.5°	896.6	718.8	485.6	451.2	344.1	286.8	302.1	305.9	307.8	271.5	267.7
85°	428.2	380.5	273.4	256.2	200.7	160.6	185.4	200.7	202.7	166.3	154.9
87.5°	204.6	198.8	128.1	97.5	74.6	53.5	65.0	80.3	87.9	63.1	55.4
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)