

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: McGRAW-EDISON

Report Number: P454638

Luminaire Tested: **GALN-SA5D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34535 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

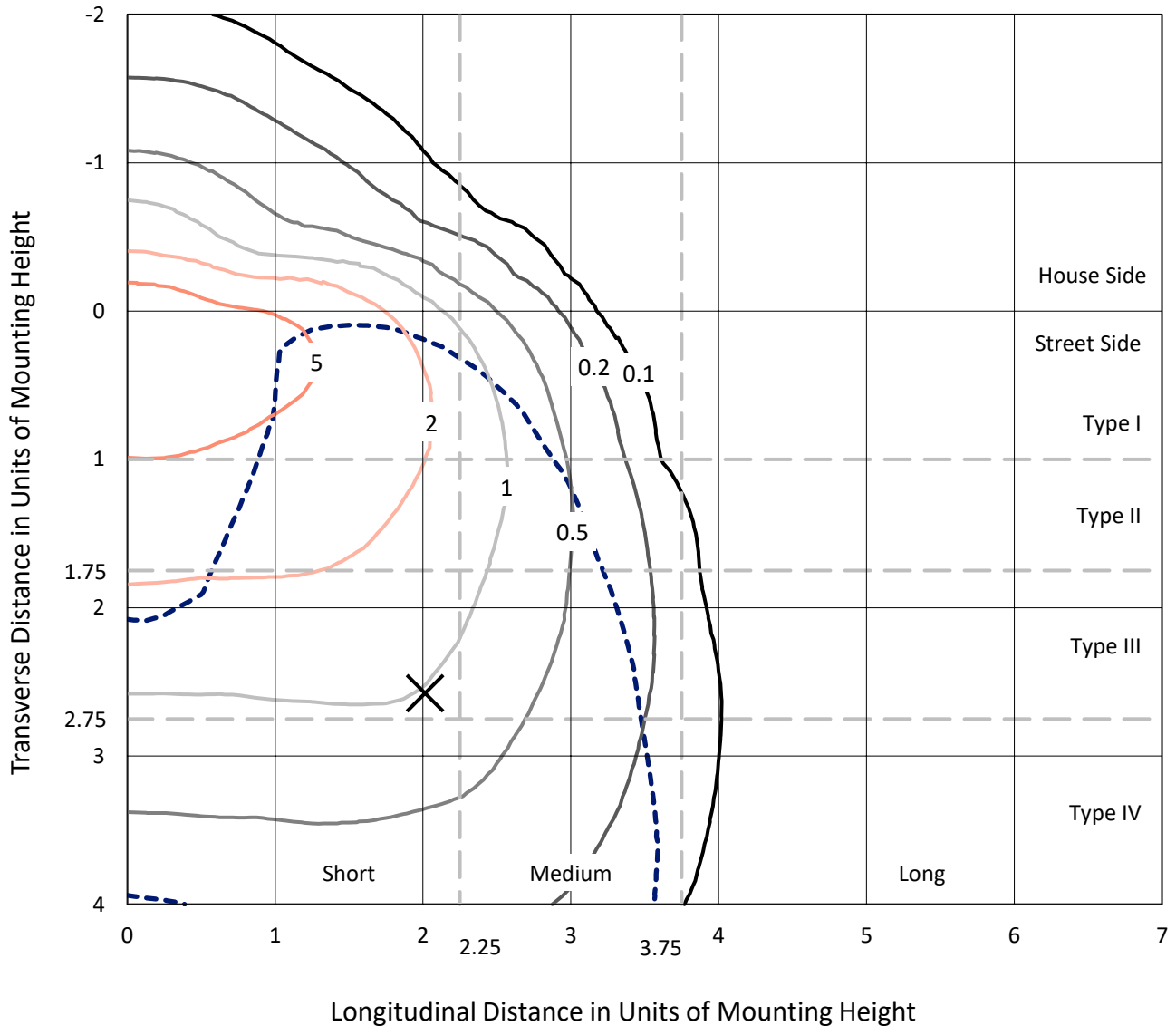
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

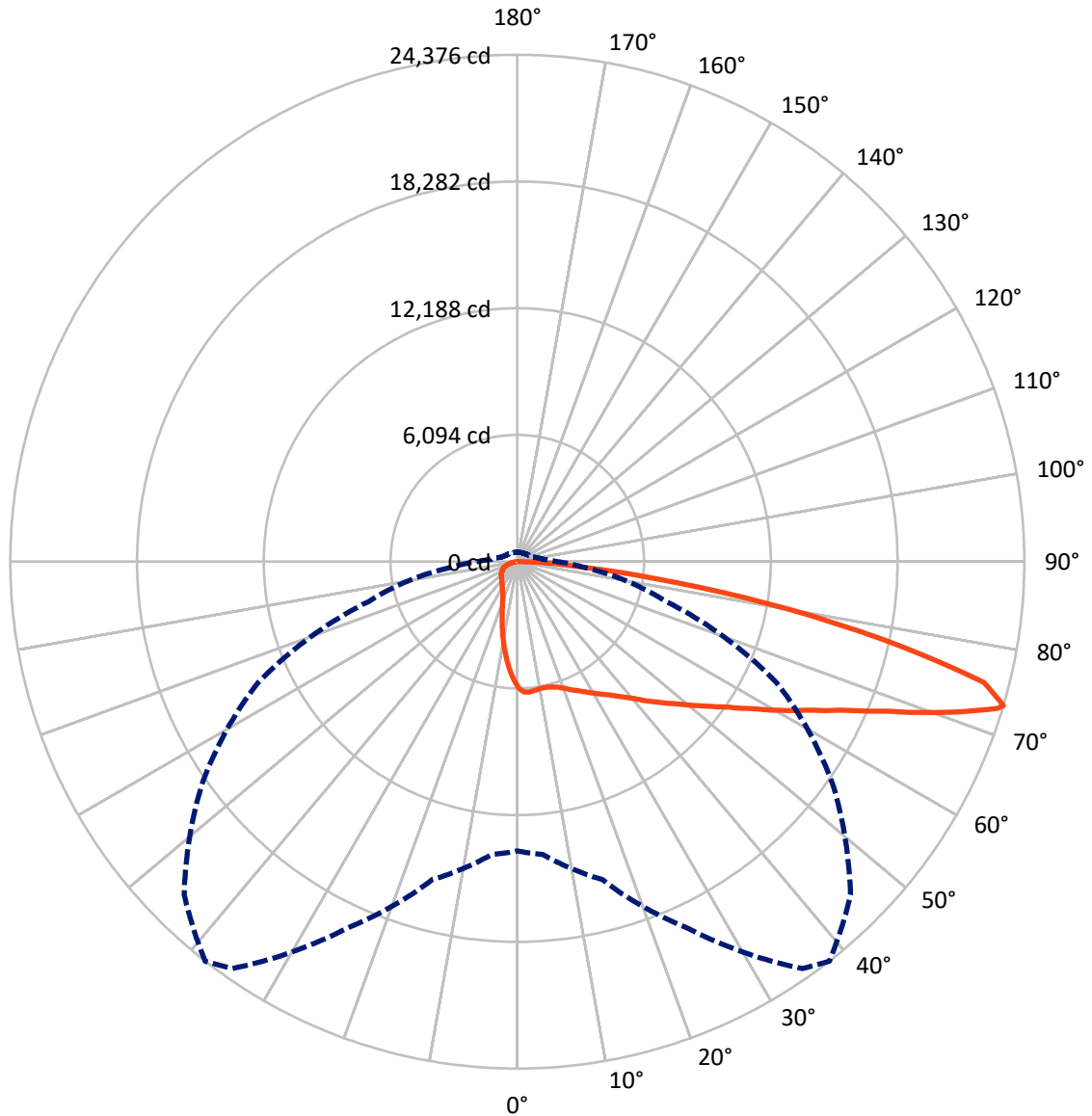
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4642.5	0.0	4642.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29892.5	0.0	29892.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	34535.0	0.0	34535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	1.5
10°-20°	1358.1	3.9
20°-30°	2114.8	6.1
30°-40°	3101.9	9.0
40°-50°	4601.3	13.3
50°-60°	6519.1	18.9
60°-70°	8269.7	23.9
70°-80°	6883.9	19.9
80°-90°	1156.6	3.3
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°	34535.0	100.0
0°-180°	34535.0	100.0

Coefficient of Utilization



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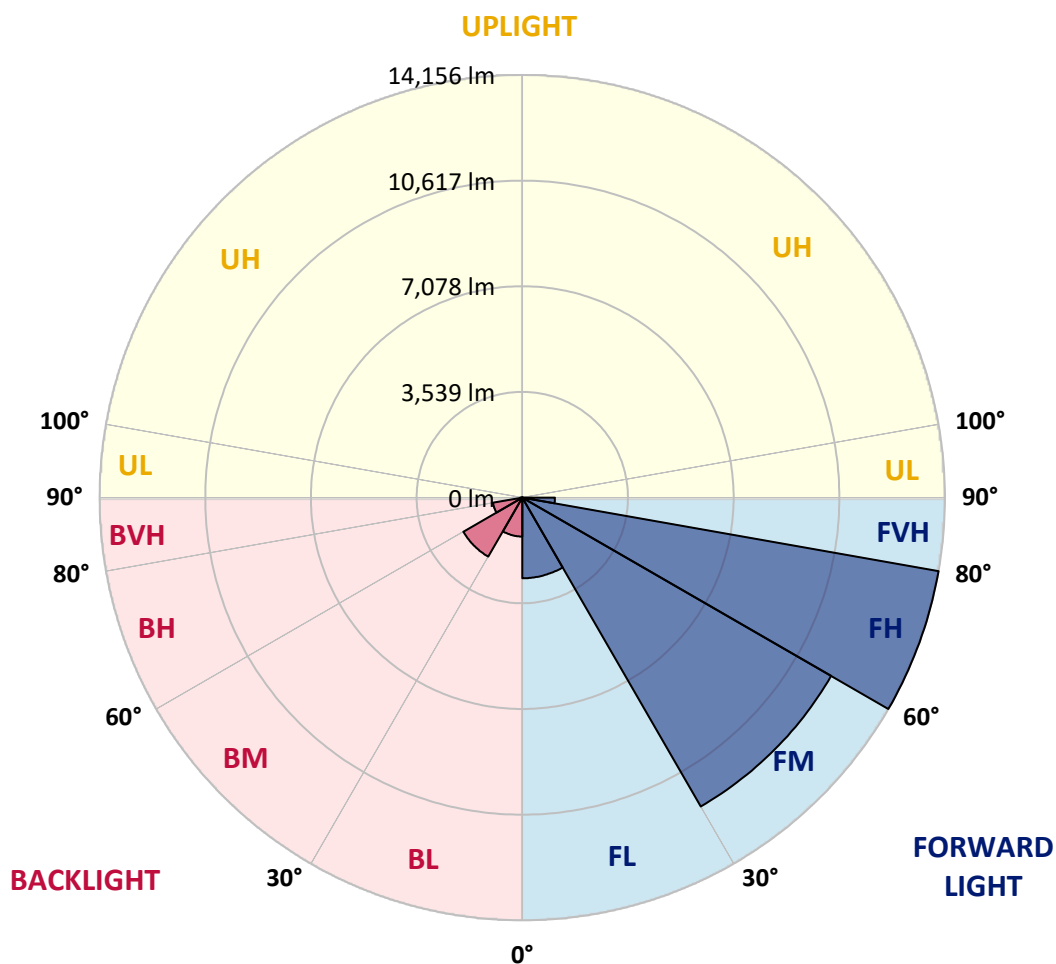
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2699.7	7.8			
FM (30°-60°)	11943.1	34.6			
FH (60°-80°)	14155.8	41.0			G5
FVH (80°-90°)	1093.9	3.2			G5
BL (0°-30°)	1302.7	3.8	B3/2500		
BM (30°-60°)	2279.2	6.6	B2/2500		
BH (60°-80°)	997.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	62.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2
2.5°	6311.0	6342.2	6326.6	6305.1	6291.5	6277.8	6258.3	6201.8	6156.9	6108.2	6032.1
5°	6357.8	6377.3	6363.7	6336.3	6305.1	6291.5	6254.4	6180.3	6108.2	6026.3	5913.1
7.5°	6330.5	6338.3	6322.7	6289.5	6262.2	6236.9	6194.0	6112.1	6024.3	5924.8	5776.6
10°	6233.0	6262.2	6262.2	6234.9	6207.6	6194.0	6151.1	6073.1	5993.1	5880.0	5704.5
12.5°	6153.0	6184.2	6209.6	6201.8	6199.8	6199.8	6166.7	6108.2	6014.6	5907.3	5698.6
15°	6098.4	6135.5	6190.1	6221.3	6240.8	6246.6	6233.0	6182.3	6086.7	5961.9	5722.0
17.5°	6086.7	6131.6	6231.0	6299.3	6350.0	6348.0	6344.1	6273.9	6168.6	6039.9	5751.3
20°	6139.4	6197.9	6336.3	6443.6	6517.7	6504.1	6482.6	6391.0	6268.1	6123.8	5778.6
22.5°	6297.3	6357.8	6509.9	6626.9	6699.1	6699.1	6634.7	6513.8	6383.2	6221.3	5815.6
25°	6523.6	6589.9	6751.8	6870.7	6903.9	6878.5	6814.2	6667.9	6517.7	6361.7	5893.6
27.5°	6800.5	6880.5	7030.6	7130.1	7120.3	7100.8	7034.5	6847.3	6697.1	6554.8	6026.3
30°	7145.7	7204.2	7360.2	7383.6	7348.5	7344.6	7251.0	7063.8	6923.4	6814.2	6215.4
32.5°	7471.4	7524.0	7648.9	7658.6	7596.2	7604.0	7516.2	7344.6	7264.7	7225.7	6533.3
35°	7816.6	7843.9	7951.2	7939.5	7898.5	7892.6	7857.5	7693.7	7719.1	7789.3	6983.8
37.5°	8105.2	8159.8	8220.3	8230.0	8228.1	8247.6	8271.0	8193.0	8339.3	8559.6	7574.8
40°	8370.5	8417.3	8507.0	8538.2	8614.2	8653.2	8733.2	8735.2	9072.5	9435.3	8302.2
42.5°	8549.9	8629.8	8797.6	8854.1	9039.4	9156.4	9275.4	9402.1	9891.6	10357.8	9160.3
45°	8705.9	8811.2	9090.1	9265.6	9517.2	9659.6	9911.1	10176.4	10880.4	11490.8	10032.1
47.5°	8941.9	9035.5	9355.3	9665.4	10045.7	10209.5	10585.9	10981.8	11902.3	12571.3	10866.8
50°	9269.5	9326.1	9651.8	10156.9	10642.5	10853.1	11350.4	11921.9	12994.5	13638.1	11600.1
52.5°	9688.8	9712.2	9971.6	10644.4	11284.1	11545.5	12204.6	12871.6	13950.1	14564.4	12181.2
55°	10184.2	10145.2	10348.0	11161.3	12017.4	12358.7	13066.6	13833.1	15024.7	15313.3	12604.4
57.5°	10673.7	10613.2	10775.1	11789.2	12922.3	13333.8	14158.8	14823.8	15984.2	16013.5	12900.9
60°	11192.5	11147.6	11340.7	12526.4	14032.0	14519.6	15282.1	15851.6	16912.5	16501.0	12947.7
62.5°	11724.9	11652.7	11927.7	13355.3	15282.1	15724.8	16464.0	16943.7	17823.3	16682.4	12497.2
65°	12241.7	12208.5	12633.7	14340.2	16705.8	17209.0	17926.7	18252.3	18552.7	16409.4	11379.7
67.5°	12791.7	12858.0	13536.7	15654.6	18562.4	19194.3	19968.6	19662.4	18761.4	15116.4	9583.5
70°	13630.3	13673.2	14722.4	17376.7	20955.4	21717.9	22092.4	20163.6	17755.0	12661.0	7204.2
72.5°	13991.1	14180.2	15781.4	19184.6	23674.0	24140.1	22806.2	19046.1	14790.7	8600.6	3785.4
73°	13911.1	14137.3	15830.1	19459.6	23886.6	24376.1	22654.1	18470.8	13749.2	7407.0	3245.2
75°	12914.5	13193.4	15196.3	19229.4	23473.2	23180.6	20208.4	15742.4	9291.0	3368.1	1478.3
77.5°	10190.0	10270.0	12040.8	15527.9	18484.4	17942.3	15124.2	9839.0	3795.2	1252.1	838.6
80°	5111.6	5406.1	6786.9	8895.1	12360.7	12183.2	9546.5	4653.3	1581.6	735.2	555.8
82.5°	2459.3	2667.9	3305.7	4337.3	6829.8	6667.9	4727.4	2543.1	1004.4	429.1	327.6
85°	1583.6	1739.6	2104.3	2069.2	2808.4	2681.6	2123.8	1924.9	594.8	224.3	228.2
87.5°	1045.3	1144.8	1373.0	1098.0	1021.9	924.4	938.1	1084.3	117.0	85.8	31.2
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°	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2
2.5°	6000.9	5975.6	5891.7	5809.8	5731.8	5657.7	5608.9	5544.5	5501.6	5513.3	5530.9
5°	5850.7	5794.2	5646.0	5501.6	5365.1	5203.3	5072.6	4967.3	4887.3	4858.1	4852.2
7.5°	5692.8	5597.2	5384.6	5136.9	4904.9	4704.0	4471.9	4356.8	4222.3	4175.5	4159.9
10°	5597.2	5468.5	5170.1	4824.9	4475.8	4142.3	3890.7	3686.0	3500.7	3465.6	3448.0
12.5°	5569.9	5400.2	4998.5	4553.8	4089.7	3680.1	3307.6	3038.5	2859.1	2818.1	2757.6
15°	5554.3	5343.7	4838.6	4280.8	3691.8	3192.6	2800.6	2486.6	2322.7	2213.5	2215.5
17.5°	5540.6	5279.3	4659.1	3982.4	3348.6	2773.2	2340.3	2057.5	1907.3	1848.8	1843.0
20°	5521.1	5203.3	4452.4	3668.4	2956.6	2391.0	1999.0	1788.4	1687.0	1638.2	1636.3
22.5°	5513.3	5129.1	4249.6	3348.6	2609.4	2096.5	1772.8	1624.6	1560.2	1527.0	1527.0
25°	5532.8	5076.5	4037.0	3044.3	2301.3	1844.9	1616.8	1515.3	1478.3	1460.7	1454.9
27.5°	5593.3	5053.1	3826.4	2740.1	2018.5	1673.3	1511.4	1441.2	1413.9	1400.3	1402.2
30°	5708.4	5051.1	3619.7	2439.8	1807.9	1542.6	1427.6	1378.8	1357.4	1349.6	1347.6
32.5°	5893.6	5094.0	3416.8	2192.1	1630.4	1433.4	1349.6	1314.5	1304.7	1298.9	1296.9
35°	6207.6	5215.0	3216.0	1965.8	1493.9	1335.9	1275.5	1257.9	1244.3	1250.1	1252.1
37.5°	6630.8	5423.6	3024.8	1788.4	1390.5	1263.8	1213.1	1197.5	1189.6	1195.5	1201.4
40°	7198.4	5724.0	2864.9	1646.0	1316.4	1203.3	1158.4	1144.8	1137.0	1146.7	1148.7
42.5°	7824.4	6071.1	2732.3	1534.8	1256.0	1152.6	1109.7	1094.1	1088.2	1094.1	1096.0
45°	8468.0	6474.8	2664.0	1454.9	1205.3	1115.5	1070.7	1053.1	1039.5	1035.6	1041.4
47.5°	9101.8	6825.9	2662.1	1406.1	1164.3	1082.4	1033.6	1014.1	996.6	986.8	984.9
50°	9618.6	7104.7	2708.9	1384.7	1129.2	1045.3	996.6	977.1	953.7	934.2	938.1
52.5°	10008.7	7286.1	2730.3	1374.9	1109.7	1006.3	957.6	940.0	912.7	887.4	887.4
55°	10260.2	7329.0	2677.7	1365.2	1094.1	965.4	912.7	897.1	869.8	844.5	844.5
57.5°	10346.1	7196.4	2488.5	1341.8	1078.5	930.3	867.9	854.2	832.8	807.4	803.5
60°	10147.1	6747.8	2157.0	1271.6	1047.3	893.2	819.1	813.3	805.5	784.0	782.0
62.5°	9380.7	5796.1	1796.2	1179.9	994.6	854.2	774.2	784.0	789.8	778.1	776.2
65°	8105.2	4705.9	1534.8	1053.1	924.4	799.6	725.5	750.8	766.4	766.4	762.5
67.5°	6574.3	3613.8	1293.0	943.9	836.7	725.5	670.9	690.4	702.1	698.2	707.9
70°	4672.8	2447.6	1053.1	819.1	725.5	641.6	600.7	600.7	592.9	589.0	589.0
72.5°	2266.2	1398.3	854.2	684.5	618.2	548.0	514.9	501.2	485.6	483.7	473.9
73°	1893.7	1254.0	815.2	659.2	592.9	534.4	497.3	475.9	466.1	458.3	456.4
75°	1152.6	951.7	680.6	555.8	505.1	460.3	427.1	407.6	397.9	392.0	390.0
77.5°	758.6	709.9	528.5	425.2	386.1	358.8	345.2	325.7	319.8	312.0	312.0
80°	565.6	542.2	378.3	300.3	276.9	253.5	249.6	245.7	230.1	220.4	216.5
82.5°	364.7	386.1	257.4	200.9	175.5	156.0	158.0	163.8	148.2	134.6	130.7
85°	259.4	278.9	156.0	91.7	74.1	64.4	72.2	64.4	66.3	52.7	42.9
87.5°	42.9	74.1	27.3	11.7	5.9	3.9	0.0	0.0	0.0	0.0	0.0
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)