

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: P455098

Luminaire Tested: **GALN-SA6B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30674 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

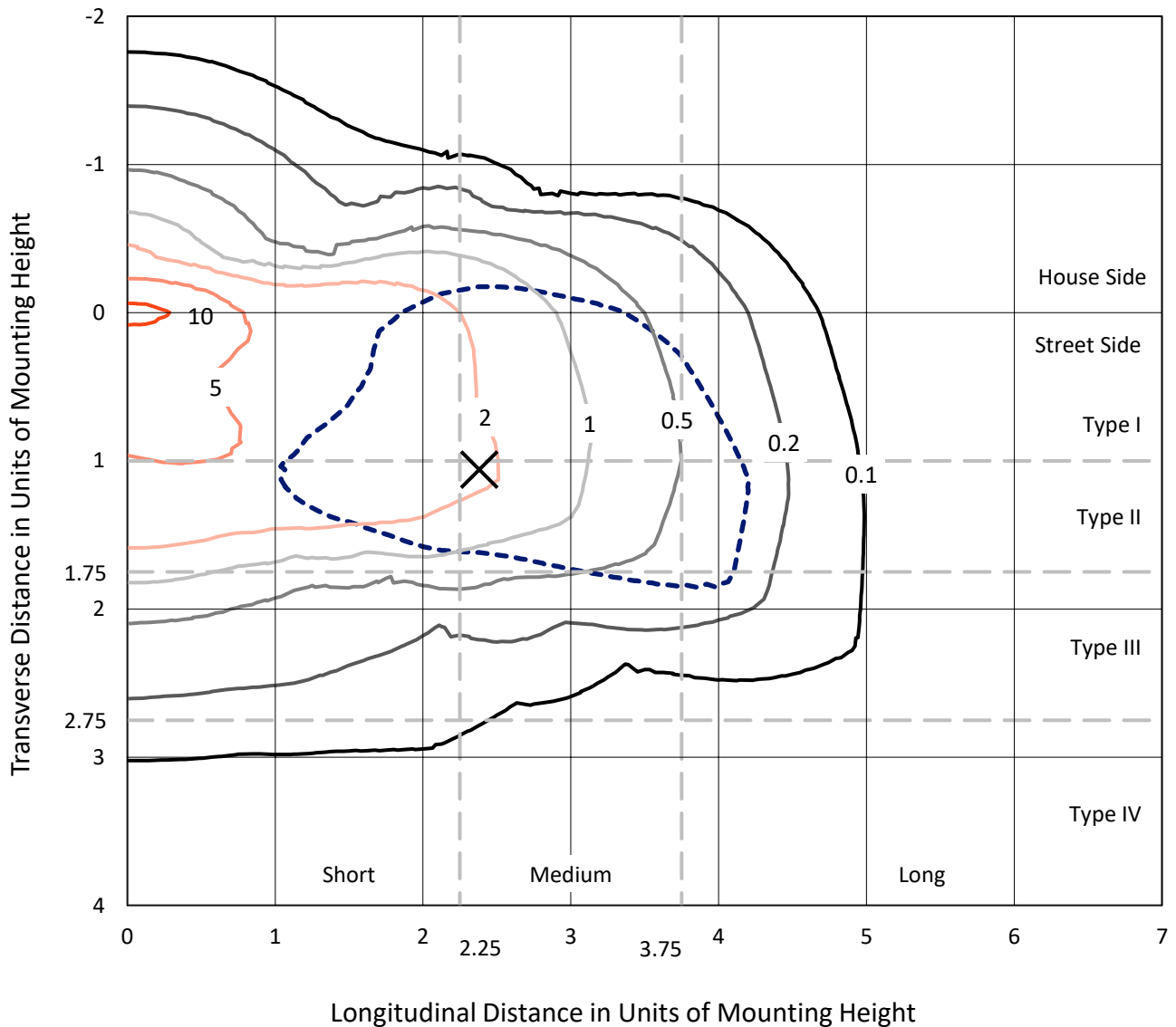
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

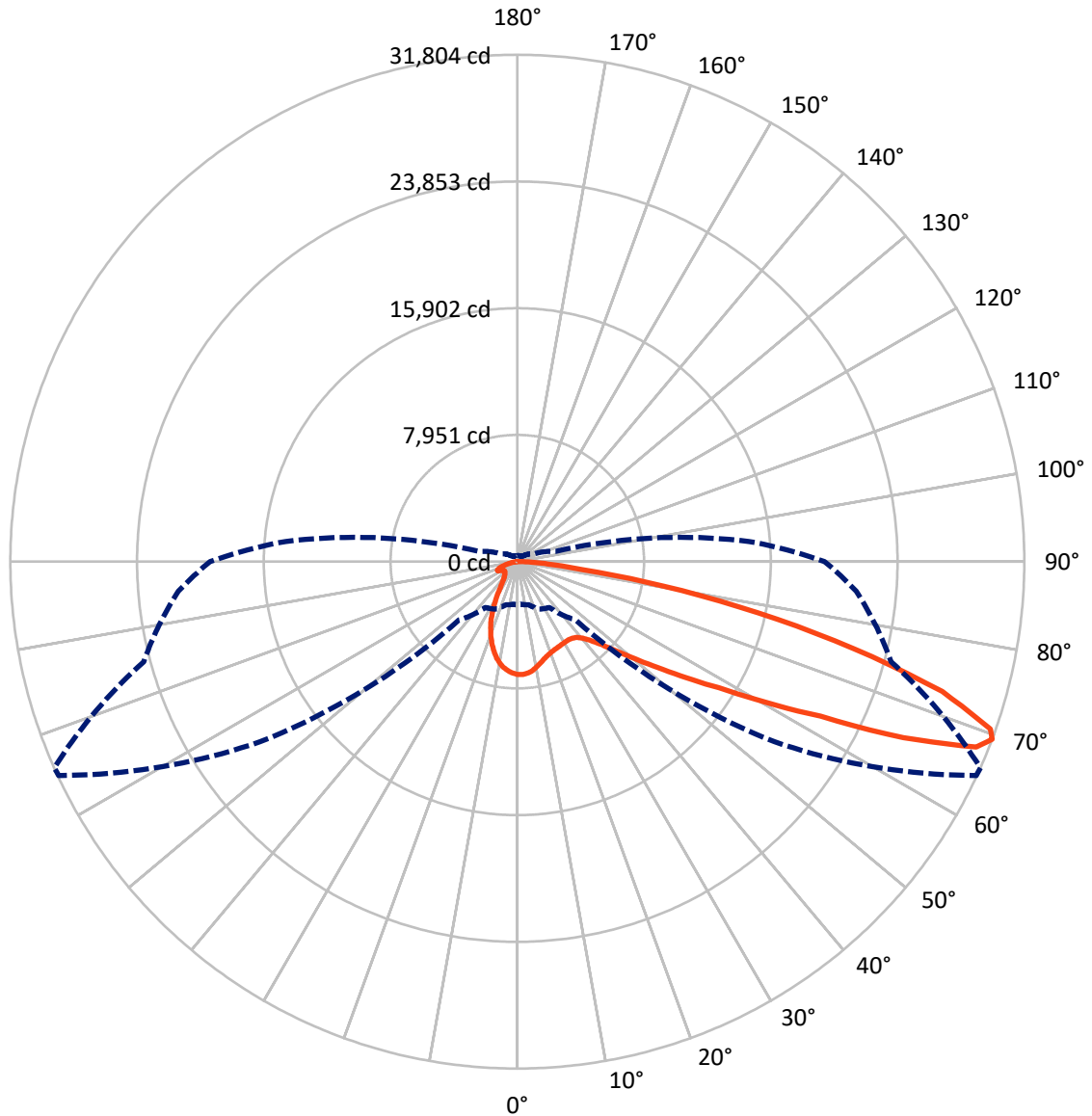
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5768.6	0.0	5768.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24905.4	0.0	24905.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	30674.0	0.0	30674.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.1	2.0
10°-20°	1459.0	4.8
20°-30°	1986.3	6.5
30°-40°	2669.1	8.7
40°-50°	3985.4	13.0
50°-60°	6339.5	20.7
60°-70°	7797.2	25.4
70°-80°	5073.2	16.5
80°-90°	749.2	2.4
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°	30674.0	100.0
0°-180°	30674.0	100.0



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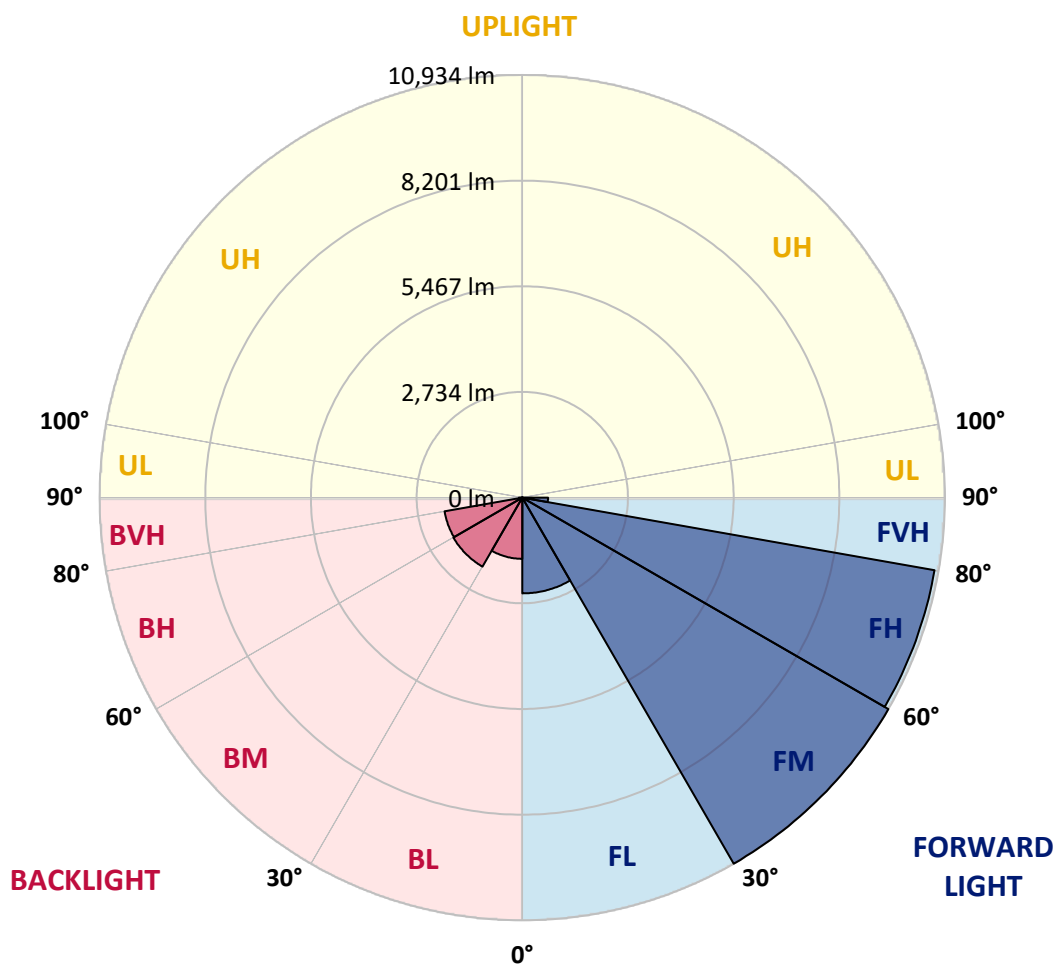
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2476.9	8.1			
FM	(30°-60°)	10934.4	35.6			
FH	(60°-80°)	10828.1	35.3			G4/12000
FVH	(80°-90°)	666.0	2.2			G4/750
BL	(0°-30°)	1583.5	5.2	B3/2500		
BM	(30°-60°)	2059.7	6.7	B2/2500		
BH	(60°-80°)	2042.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	83.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5
2.5°	6835.5	6862.7	6893.2	6927.2	6991.8	7027.4	7052.9	7081.8	7085.2	7100.5	7088.6
5°	6331.0	6363.2	6409.1	6473.7	6570.5	6721.7	6877.9	7005.3	7020.6	7092.0	7112.4
7.5°	5909.7	5928.4	5965.8	6069.4	6207.0	6375.1	6602.8	6861.0	6898.3	7068.2	7127.6
10°	5566.6	5585.2	5629.4	5736.4	5872.3	6083.0	6332.7	6672.4	6703.0	6995.1	7131.0
12.5°	5310.1	5327.0	5374.6	5479.9	5636.2	5833.3	6108.4	6468.6	6512.7	6898.3	7098.8
15°	5114.7	5147.0	5186.1	5272.7	5437.5	5627.7	5894.4	6281.7	6317.4	6796.4	7076.7
17.5°	5031.5	5046.8	5073.9	5153.8	5274.4	5461.2	5729.6	6135.6	6178.1	6725.1	7071.6
20°	5034.9	5050.2	5055.3	5099.4	5186.1	5347.4	5612.4	6020.1	6071.1	6662.2	7080.1
22.5°	5150.4	5152.1	5133.4	5118.1	5152.1	5286.3	5529.2	5933.5	5992.9	6635.0	7086.9
25°	5328.7	5359.3	5332.1	5260.8	5197.9	5262.5	5496.9	5885.9	5942.0	6596.0	7078.4
27.5°	5617.5	5622.6	5600.5	5503.7	5340.6	5293.1	5483.3	5850.2	5897.8	6567.1	7035.9
30°	6004.8	5989.5	5969.1	5862.1	5605.6	5410.3	5512.2	5818.0	5867.2	6524.6	6985.0
32.5°	6397.2	6444.8	6426.1	6300.4	5967.4	5637.9	5605.6	5814.6	5855.3	6492.3	6928.9
35°	6813.4	6835.5	6923.8	6859.3	6517.8	6006.5	5780.6	5867.2	5899.5	6494.0	6889.8
37.5°	7139.5	7199.0	7406.2	7462.3	7141.2	6494.0	6064.3	6016.7	6030.3	6577.3	6905.1
40°	7533.6	7635.5	7902.2	8131.6	7920.9	7127.6	6546.7	6293.6	6310.6	6777.7	7005.3
42.5°	8033.0	8104.4	8462.8	8773.7	8739.7	7965.1	7131.0	6747.1	6755.6	7176.9	7285.6
45°	8617.4	8719.3	9121.9	9589.0	9668.9	8913.0	7975.3	7433.4	7428.3	7796.9	7808.8
47.5°	9364.8	9427.7	9826.8	10336.4	10659.2	10103.7	8999.6	8418.6	8364.3	8700.6	8603.8
50°	10052.8	10151.3	10453.7	11010.8	11814.3	11498.3	10346.6	9696.0	9568.6	9882.9	9719.8
52.5°	10341.5	10445.2	10700.0	11391.3	12804.6	13302.3	12057.2	11219.8	11007.4	11248.6	11189.2
55°	9840.4	9974.6	10212.4	11053.3	13239.5	15383.2	14364.0	12981.3	12826.7	12723.1	12740.1
57.5°	8493.4	8620.8	8941.8	9869.3	12719.7	16893.3	17657.7	15245.6	14914.4	14437.0	14518.6
60°	6465.2	6545.0	6711.5	7739.2	11179.0	17285.7	21398.2	18107.9	17897.3	16144.2	16202.0
62.5°	4591.5	4681.6	4797.1	5310.1	8184.2	16179.9	24326.7	22104.9	21352.4	17912.5	17856.5
65°	3728.6	3667.4	3806.7	4046.2	4802.2	12539.6	24985.8	27652.7	26616.6	20241.4	19463.4
67.5°	3066.1	3001.6	3139.2	3565.5	3652.2	7278.8	22611.1	31253.9	31046.7	22774.1	21095.9
69°	2714.5	2680.5	2801.1	3286.9	3506.1	5169.1	19697.8	31755.0	31804.3	24267.3	21347.3
70°	2446.1	2459.7	2576.9	3145.9	3439.8	4262.0	16835.6	31063.7	31481.6	25013.0	21075.5
72.5°	1800.6	1829.5	1992.5	2605.8	3377.0	3616.5	10018.8	27133.0	27871.9	25057.2	19280.0
75°	1258.7	1245.1	1389.5	1962.0	3190.1	3584.2	5884.2	20983.7	21821.2	21658.1	16200.3
77.5°	823.9	845.9	961.5	1386.1	2683.9	3557.0	3835.6	14887.2	15430.8	14484.6	9582.2
80°	580.9	579.2	643.8	946.2	1990.8	3417.7	3140.9	9383.5	9245.9	5692.3	2841.9
82.5°	332.9	356.7	431.5	665.9	1331.8	3008.4	2889.4	4487.9	4097.2	1622.2	959.8
85°	185.2	193.6	256.5	402.6	778.0	2266.0	2522.5	2041.8	1926.3	677.8	412.8
87.5°	59.5	64.5	107.0	203.8	353.3	1070.2	1428.6	942.8	869.7	244.6	166.5
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°	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5	7083.5
2.5°	7093.7	7114.1	7059.7	7007.0	6959.5	6893.2	6833.8	6784.5	6750.5	6745.4	6728.5
5°	7117.5	7119.2	7015.5	6876.2	6740.3	6590.9	6436.3	6325.9	6222.3	6164.5	6135.6
7.5°	7134.4	7119.2	6932.3	6706.4	6444.8	6173.0	5901.2	5683.8	5515.6	5449.4	5474.8
10°	7127.6	7080.1	6806.6	6444.8	6064.3	5658.3	5267.6	4961.8	4681.6	4537.2	4540.6
12.5°	7090.3	7012.1	6619.7	6150.9	5592.0	5048.5	4450.5	4037.8	3713.3	3521.4	3461.9
15°	7058.0	6922.1	6400.6	5751.7	5057.0	4280.7	3551.9	3042.3	2770.5	2619.4	2617.7
17.5°	7024.0	6835.5	6161.1	5328.7	4442.0	3443.2	2678.8	2289.8	2162.4	2177.7	2152.2
20°	6988.4	6733.6	5911.4	4858.2	3692.9	2568.4	2006.1	1848.2	1883.8	1953.5	1963.7
22.5°	6947.6	6624.8	5643.0	4340.1	2904.7	1933.1	1627.3	1603.6	1695.3	1804.0	1819.3
25°	6884.7	6488.9	5305.0	3798.2	2240.6	1557.7	1425.2	1442.2	1532.2	1623.9	1634.1
27.5°	6796.4	6320.8	4963.5	3122.2	1683.4	1336.9	1302.9	1325.0	1369.1	1425.2	1438.8
30°	6677.5	6130.5	4571.1	2537.8	1348.7	1226.4	1212.9	1224.7	1250.2	1274.0	1280.8
32.5°	6558.6	5947.1	4175.3	1943.3	1202.7	1153.4	1139.8	1139.8	1139.8	1143.2	1144.9
35°	6448.2	5773.8	3750.7	1513.5	1126.2	1095.6	1077.0	1056.6	1053.2	1041.3	1041.3
37.5°	6387.0	5615.8	3298.8	1267.2	1070.2	1048.1	1022.6	988.6	969.9	971.6	968.2
40°	6398.9	5512.2	2887.7	1127.9	1024.3	1000.5	961.5	922.4	910.5	910.5	907.1
42.5°	6533.1	5478.2	2493.7	1054.9	980.1	953.0	903.7	868.0	861.2	859.5	862.9
45°	6842.3	5561.5	2140.3	1007.3	942.8	902.0	852.7	820.5	813.7	813.7	812.0
47.5°	7445.3	5831.6	1887.2	976.7	915.6	862.9	812.0	779.7	767.8	764.4	764.4
50°	8383.0	6417.6	1698.7	949.6	881.6	827.3	774.6	737.2	718.5	716.8	715.1
52.5°	9685.9	7331.5	1625.6	929.2	844.2	789.9	732.1	696.5	672.7	667.6	664.2
55°	11209.6	8607.2	1725.9	913.9	805.2	747.4	688.0	650.6	628.5	618.3	616.6
57.5°	12974.5	10139.4	2106.4	893.5	769.5	701.6	643.8	606.4	582.6	570.8	567.4
60°	14559.4	11714.1	2770.5	881.6	738.9	652.3	592.8	558.9	536.8	524.9	523.2
62.5°	16300.5	13215.7	3563.8	913.9	725.3	604.7	545.3	514.7	496.0	484.1	484.1
65°	18160.5	14719.0	4088.7	1022.6	745.7	567.4	494.3	468.8	451.8	443.4	441.7
67.5°	19414.2	15238.8	3368.5	1134.7	796.7	526.6	445.1	424.7	414.5	406.0	406.0
69°	19278.3	14581.4	2485.2	1163.6	812.0	506.2	417.9	402.6	389.0	385.6	382.2
70°	18848.5	13832.3	2082.6	1144.9	800.1	487.5	400.9	382.2	370.3	366.9	365.2
72.5°	16788.0	11996.0	1550.9	995.4	681.2	423.0	355.0	338.0	327.8	322.7	322.7
75°	13947.8	9804.8	1211.2	791.6	533.4	356.7	304.1	290.5	282.0	278.6	276.9
77.5°	7817.3	5474.8	869.7	620.0	404.3	288.8	254.8	242.9	234.4	231.0	231.0
80°	2177.7	1564.5	511.3	409.4	275.2	219.1	202.1	193.6	181.8	173.3	178.4
82.5°	820.5	677.8	292.2	246.3	175.0	146.1	141.0	134.2	129.1	117.2	117.2
85°	399.2	329.5	186.9	130.8	96.8	76.4	73.0	69.6	66.2	57.8	59.5
87.5°	137.6	146.1	81.5	47.6	28.9	18.7	15.3	8.5	8.5	8.5	8.5
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)