

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: P458493

Luminaire Tested: **GALN-SA9D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 55236 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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



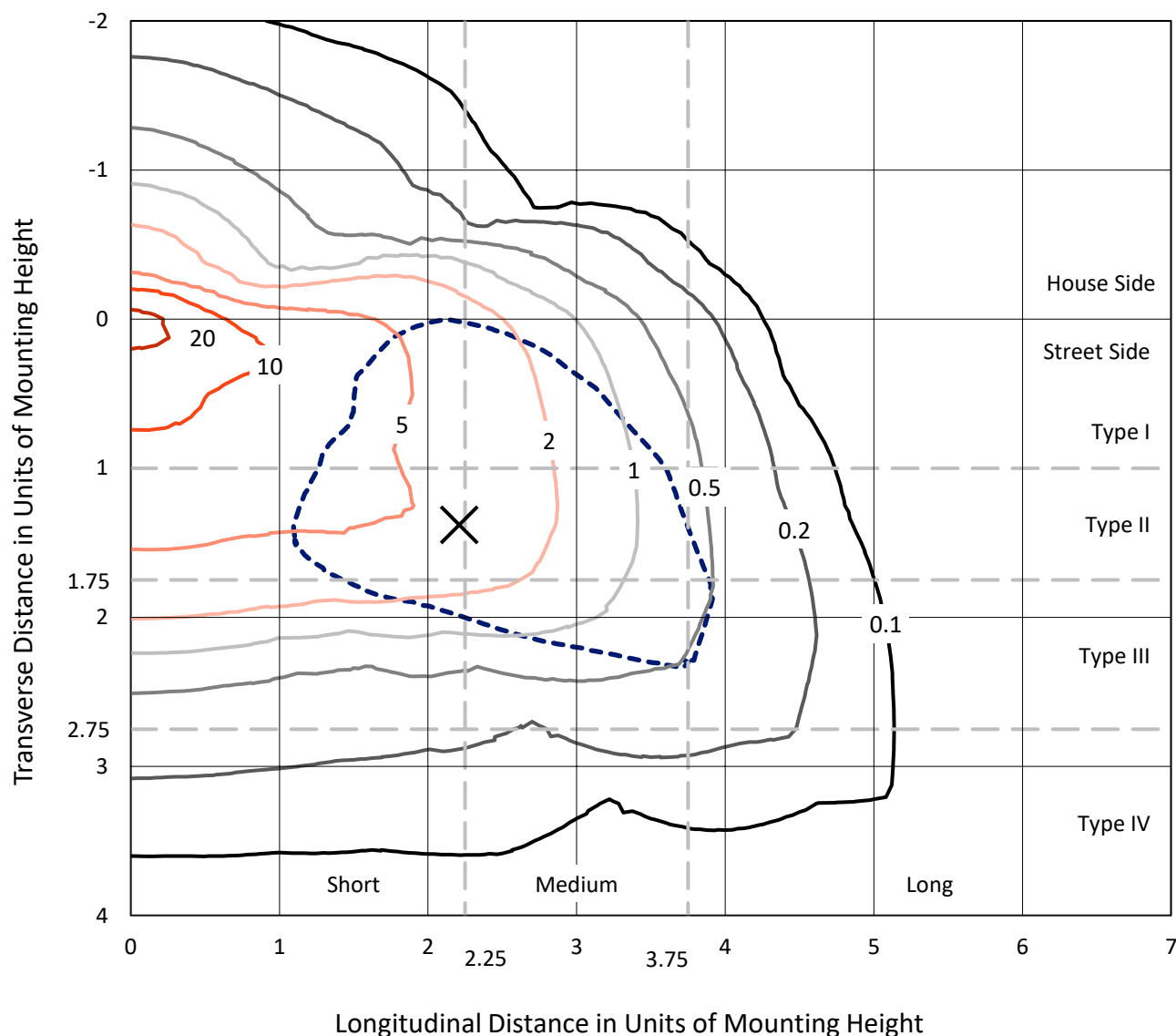
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



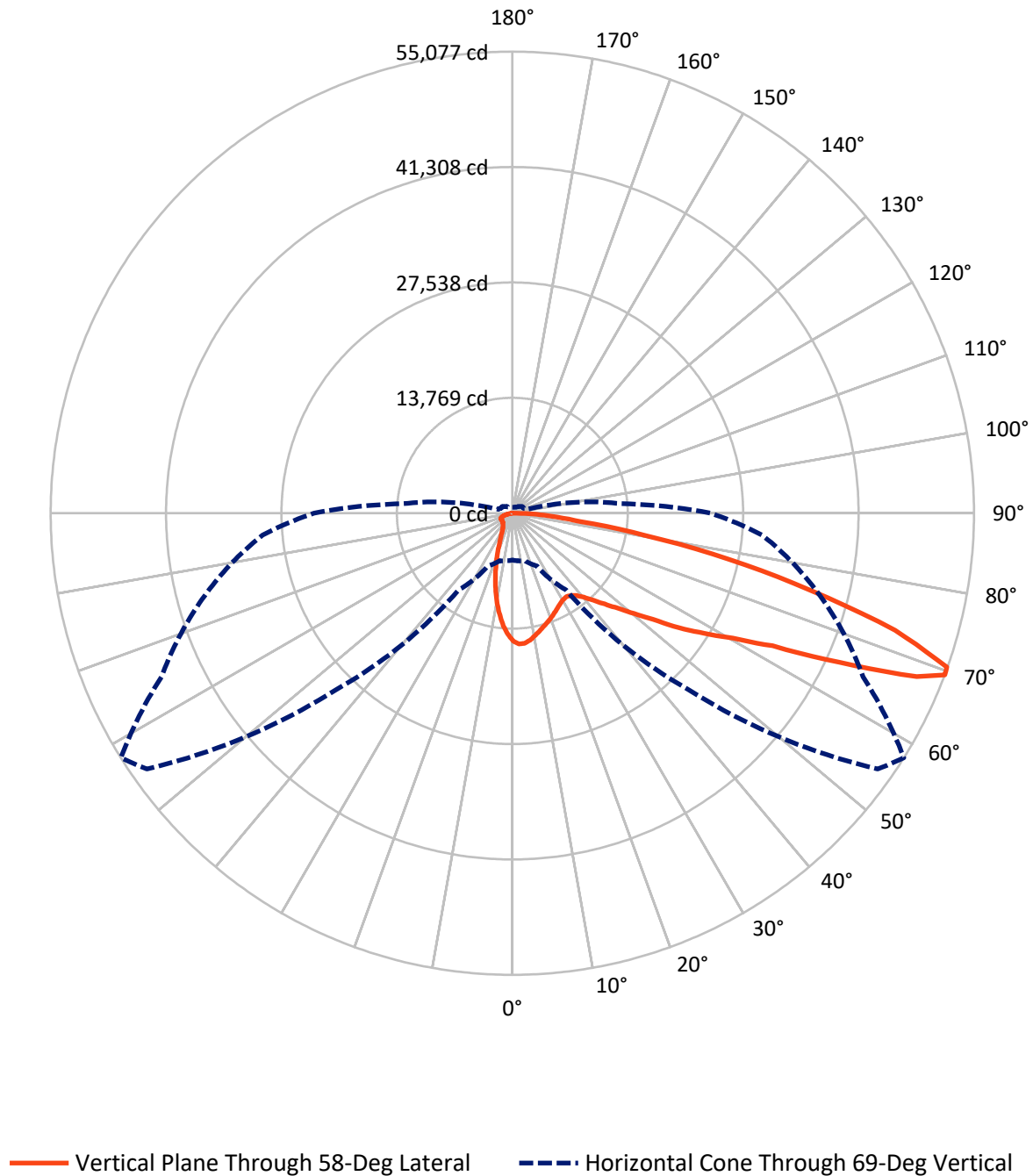
Based on 25 foot mounting height. Maximum calculated value = 24.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8094.8	0.0	8094.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	47141.2	0.0	47141.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	55236.0	0.0	55236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.3	2.3
10°-20°	2846.4	5.2
20°-30°	3677.6	6.7
30°-40°	4776.5	8.6
40°-50°	6944.3	12.6
50°-60°	11080.9	20.1
60°-70°	14802.7	26.8
70°-80°	8533.2	15.4
80°-90°	1278.1	2.3
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°	55236.0	100.0
0°-180°	55236.0	100.0

Coefficient of Utilization



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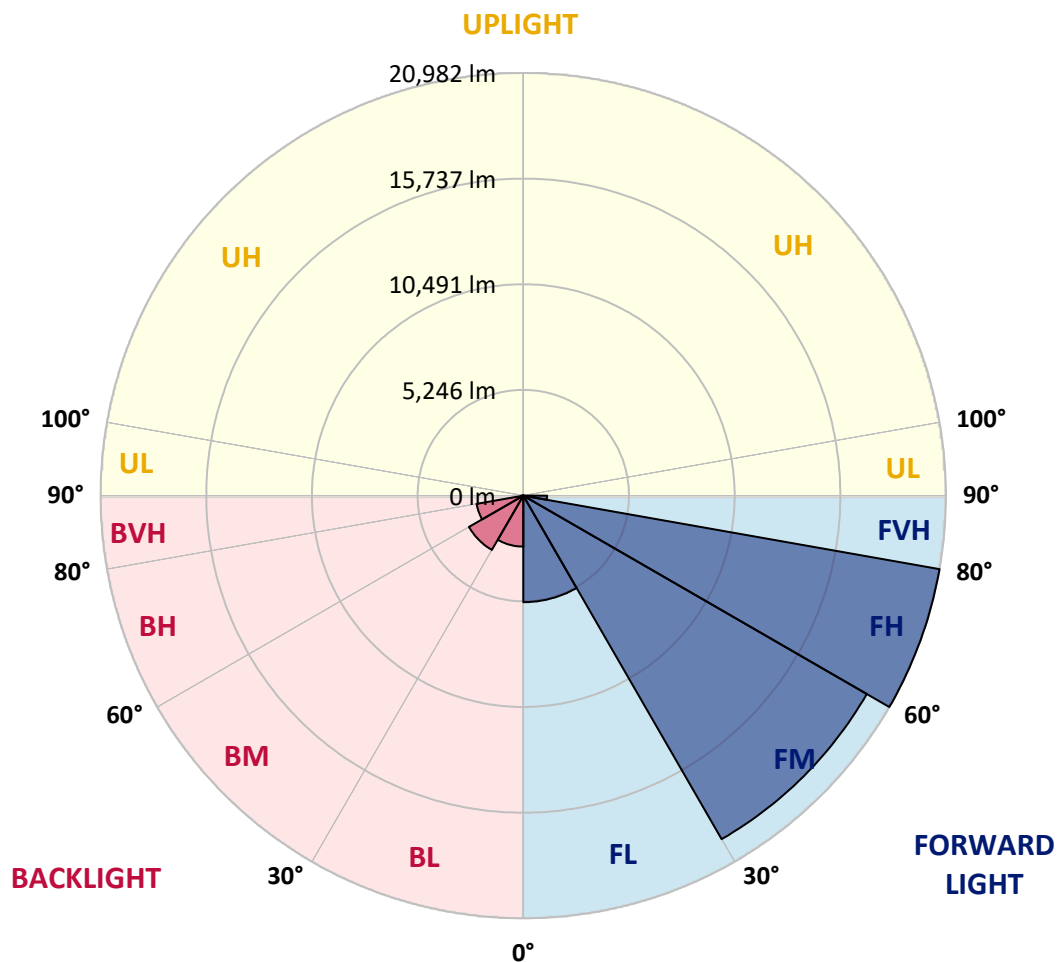
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5290.2	9.6			
FM	(30°-60°)	19688.8	35.6			
FH	(60°-80°)	20982.0	38.0			G5
FVH	(80°-90°)	1180.2	2.1			G5
BL	(0°-30°)	2530.1	4.6	B4/5000		
BM	(30°-60°)	3113.0	5.6	B3/5000		
BH	(60°-80°)	2353.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	97.9	0.2			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0
2.5°	15830.8	15873.9	15861.6	15846.2	15821.6	15753.8	15642.9	15624.4	15553.6	15402.6	15214.7
5°	15587.5	15624.4	15627.5	15649.1	15679.9	15667.5	15587.5	15578.2	15473.5	15270.2	14955.9
7.5°	14752.6	14801.9	14909.7	15029.9	15137.7	15239.4	15264.0	15279.4	15214.7	14980.6	14561.6
10°	13813.1	13862.4	13911.6	14090.3	14355.2	14607.8	14817.3	14845.0	14860.4	14644.8	14133.4
12.5°	12771.9	12873.5	12978.2	13243.2	13597.4	13994.8	14364.5	14423.0	14527.8	14364.5	13763.8
15°	11887.7	11992.5	12143.4	12380.6	12808.8	13381.8	13902.4	13997.9	14204.3	14121.1	13418.8
17.5°	11274.7	11311.7	11416.4	11687.5	12149.6	12753.4	13449.6	13640.6	13970.2	13948.6	13123.0
20°	10791.1	10837.3	10902.0	11068.3	11548.9	12186.6	13027.5	13274.0	13720.7	13794.6	12830.4
22.5°	10587.8	10621.6	10612.4	10701.7	11028.3	11669.0	12599.3	12892.0	13498.9	13689.8	12559.3
25°	10600.1	10630.9	10584.7	10563.1	10757.2	11213.1	12152.7	12525.4	13320.2	13619.0	12312.9
27.5°	10806.5	10828.0	10741.8	10655.5	10670.9	10929.7	11783.0	12195.8	13169.2	13649.8	12106.5
30°	11083.7	11123.8	11068.3	10963.6	10849.6	10861.9	11545.8	11952.4	13098.4	13757.6	12007.9
32.5°	11441.1	11478.0	11453.4	11370.2	11222.3	11059.1	11487.3	11863.1	13104.5	13976.3	11986.3
35°	11816.9	11890.8	11930.9	11924.7	11804.6	11521.2	11718.3	12029.4	13252.4	14342.9	12112.6
37.5°	12242.0	12303.6	12476.1	12587.0	12476.1	12146.5	12238.9	12454.6	13578.9	14872.8	12389.9
40°	12654.8	12747.2	12999.8	13344.8	13301.7	13012.1	13033.7	13175.4	14155.0	15661.4	12932.0
42.5°	13086.1	13197.0	13637.5	14148.8	14250.5	14025.6	14084.2	14210.5	14974.4	16755.0	13862.4
45°	13640.6	13773.0	14315.2	14952.9	15353.3	15214.7	15381.1	15442.7	16071.1	18178.2	15088.4
47.5°	14355.2	14509.3	15177.7	15972.5	16539.3	16665.6	16955.2	16918.2	17429.6	19863.2	16678.0
50°	15559.7	15646.0	16277.5	17087.7	17867.0	18436.9	18751.1	18809.7	19114.7	21502.1	18455.4
52.5°	16992.2	17069.2	17525.1	18233.6	19210.1	20417.7	21194.0	21003.0	21076.9	23498.2	20534.8
55°	18603.3	18732.7	19022.2	19493.6	20759.7	22537.1	24095.9	24142.1	23322.6	25408.2	22527.9
57.5°	19850.9	20069.6	20565.6	21237.1	22842.1	24893.7	26988.5	27019.3	25971.9	27447.5	24727.4
60°	19222.5	19481.2	20614.9	22250.6	25574.5	29006.2	30444.8	30269.2	28550.3	29770.2	27410.5
62.5°	16511.6	16557.8	18205.9	20762.7	26415.5	34508.0	35589.3	34846.9	31991.2	32715.2	30136.8
65°	10686.3	10988.2	12294.4	15877.0	23652.3	37560.8	44602.9	42887.1	36815.3	36057.5	32419.4
67.5°	6746.3	6669.3	7211.5	9066.0	16268.2	34871.5	52295.0	52023.9	43124.3	38167.7	31874.2
69°	5594.2	5680.5	5865.3	6949.7	11194.6	29773.3	53203.7	55076.7	46183.2	38001.3	29893.4
70°	5073.6	5113.7	5307.7	6161.0	8637.8	24936.8	51712.8	54993.5	47384.6	37305.1	28457.9
72.5°	4026.2	4023.2	4355.9	5126.0	6456.8	14235.1	42461.9	47745.0	46041.5	34064.4	23513.6
75°	3059.0	3108.2	3474.8	4337.4	5948.5	7778.3	29631.6	36769.1	36772.2	26905.3	14672.5
77.5°	2205.7	2236.5	2664.7	3641.2	5603.5	6305.8	19736.9	26372.4	24792.1	12328.3	4611.5
80°	1444.8	1463.2	1789.8	2883.4	5052.1	5948.5	11702.9	16141.9	11693.7	3271.5	1524.9
82.5°	791.7	884.1	1093.6	1866.8	4054.0	5495.7	7112.9	8169.5	4386.7	1457.1	794.8
85°	397.4	422.0	616.1	1090.5	2649.3	4546.9	4953.5	4685.5	2264.2	723.9	412.8
87.5°	117.1	147.9	255.7	422.0	1075.1	2368.9	2757.1	2473.7	871.8	261.8	86.3
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°	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0	15264.0
2.5°	15137.7	15082.2	14835.8	14614.0	14410.7	14195.1	14013.3	13853.1	13868.5	13871.6	13708.3
5°	14792.7	14666.4	14198.1	13760.7	13391.0	12922.8	12522.3	12263.6	12134.2	11961.7	12023.3
7.5°	14324.4	14081.1	13431.1	12704.1	12023.3	11416.4	10757.2	10304.4	10014.8	9734.5	9771.4
10°	13840.8	13449.6	12503.8	11542.7	10661.7	9691.3	8850.3	8129.5	7593.5	7393.3	7260.8
12.5°	13344.8	12830.4	11629.0	10350.6	9133.8	7972.4	6780.2	6007.0	5415.6	5101.3	5141.4
15°	12892.0	12266.6	10717.1	9158.4	7578.1	6194.9	5005.9	4269.6	3856.8	3770.6	3819.8
17.5°	12473.0	11653.6	9863.8	8000.1	6154.9	4645.4	3761.3	3345.4	3179.1	3132.9	3129.8
20°	12041.8	11133.0	8905.8	6761.8	4796.4	3601.1	3086.7	2892.6	2861.8	2880.3	2883.4
22.5°	11604.3	10489.2	7920.0	5532.6	3819.8	2945.0	2698.5	2646.2	2670.8	2713.9	2720.1
25°	11200.8	9922.4	6971.2	4454.4	3049.7	2587.6	2467.5	2467.5	2522.9	2587.6	2590.7
27.5°	10868.1	9374.0	6025.5	3536.4	2553.8	2328.9	2288.8	2310.4	2387.4	2436.7	2439.8
30°	10593.9	8862.7	5132.2	2834.1	2245.7	2122.5	2113.2	2150.2	2205.7	2251.9	2254.9
32.5°	10387.5	8412.9	4297.3	2381.2	2033.1	1965.4	1962.3	1990.0	2020.8	2033.1	2045.5
35°	10307.4	8040.2	3533.4	2094.8	1891.4	1848.3	1848.3	1845.2	1857.6	1863.7	1869.9
37.5°	10372.1	7753.7	2941.9	1909.9	1786.7	1755.9	1737.4	1718.9	1712.8	1712.8	1715.9
40°	10646.3	7602.7	2501.4	1789.8	1712.8	1666.6	1632.7	1611.1	1589.6	1595.7	1601.9
42.5°	11228.5	7630.5	2202.6	1709.7	1648.1	1583.4	1534.1	1509.5	1494.1	1512.5	1509.5
45°	12155.7	7907.7	2011.6	1654.2	1583.4	1500.2	1454.0	1429.4	1429.4	1457.1	1466.3
47.5°	13452.6	8437.6	1909.9	1611.1	1534.1	1435.5	1389.3	1370.8	1377.0	1423.2	1426.3
50°	15036.0	9358.6	1891.4	1589.6	1509.5	1389.3	1336.9	1318.5	1333.9	1383.2	1389.3
52.5°	16782.7	10544.6	1980.8	1592.6	1487.9	1361.6	1293.8	1266.1	1281.5	1321.5	1333.9
55°	18852.8	12029.4	2211.8	1605.0	1457.1	1346.2	1263.0	1201.4	1219.9	1247.6	1250.7
57.5°	20966.0	13902.4	2618.4	1608.0	1432.4	1318.5	1210.6	1130.6	1130.6	1149.0	1158.3
60°	23547.5	15941.7	3154.5	1611.1	1435.5	1278.4	1139.8	1050.5	1038.1	1047.4	1050.5
62.5°	26110.5	17648.3	3243.8	1601.9	1466.3	1238.4	1062.8	970.4	948.8	945.7	939.6
65°	27241.1	17331.0	2658.5	1558.7	1500.2	1213.7	1001.2	893.4	856.4	844.1	844.1
67.5°	25398.9	14660.2	1999.3	1500.2	1478.7	1189.1	942.6	828.7	785.5	760.9	760.9
69°	23667.7	13039.9	1795.9	1460.2	1423.2	1149.0	905.7	794.8	742.4	714.7	705.4
70°	22330.7	11924.7	1709.7	1426.3	1370.8	1102.8	877.9	770.1	711.6	680.8	674.6
72.5°	17820.8	9355.6	1497.1	1296.9	1167.5	927.2	779.4	693.1	637.7	603.8	594.5
75°	10270.5	5070.5	1241.5	1127.5	939.6	720.8	659.2	603.8	560.7	529.9	520.6
77.5°	3160.6	1959.2	899.5	890.3	690.0	557.6	526.8	505.2	474.4	440.5	434.4
80°	1330.8	998.1	609.9	600.7	459.0	388.1	378.9	375.8	363.5	335.8	326.5
82.5°	730.1	563.7	425.1	369.7	277.2	224.9	234.1	237.2	228.0	200.2	181.8
85°	357.3	308.1	206.4	166.3	126.3	80.1	77.0	92.4	86.3	61.6	67.8
87.5°	70.9	86.3	55.4	24.6	12.3	0.0	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)