

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: P457567

Luminaire Tested: **GALN-SA8D-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457567
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-SA8D-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 48589 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 493
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



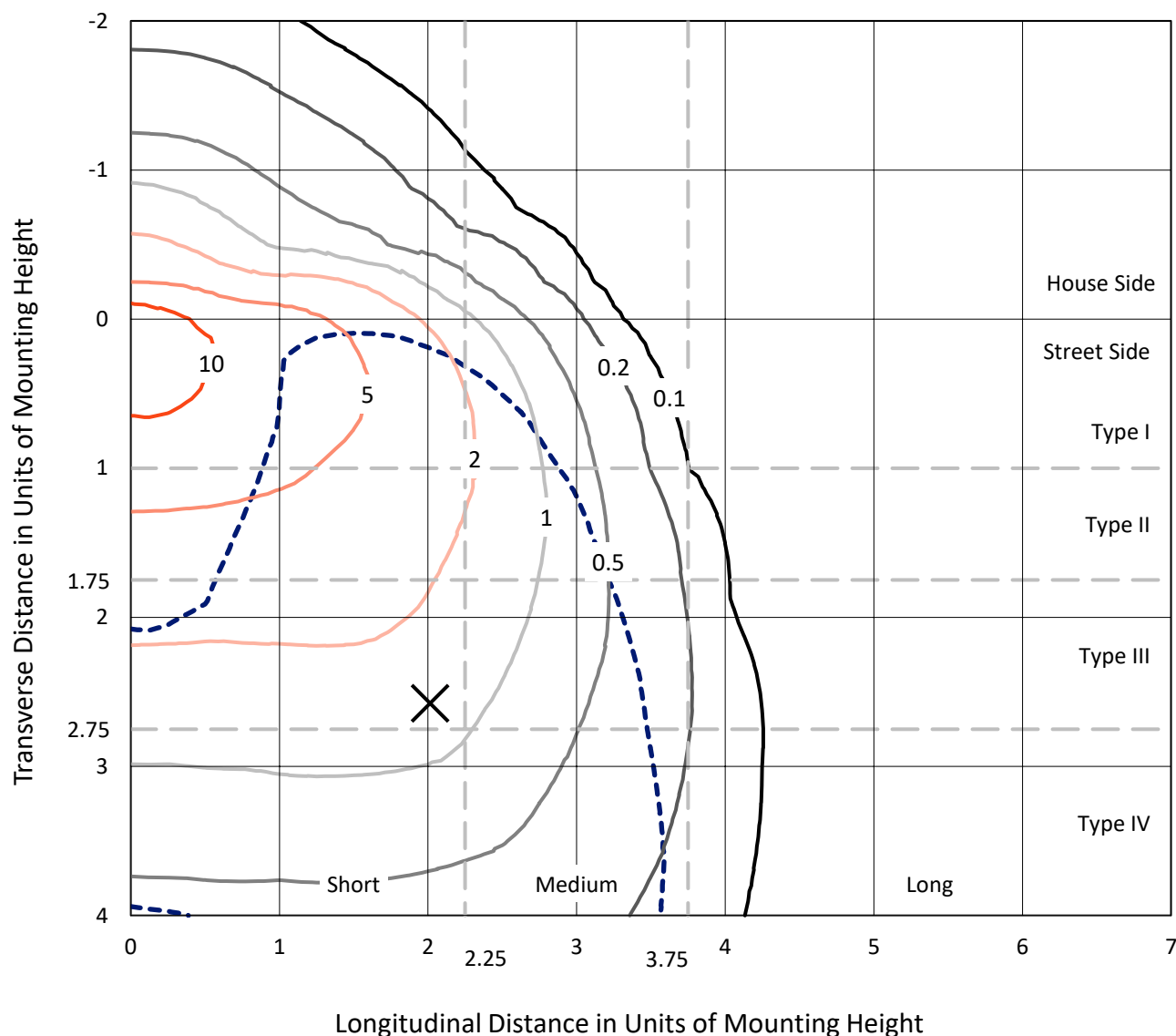
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

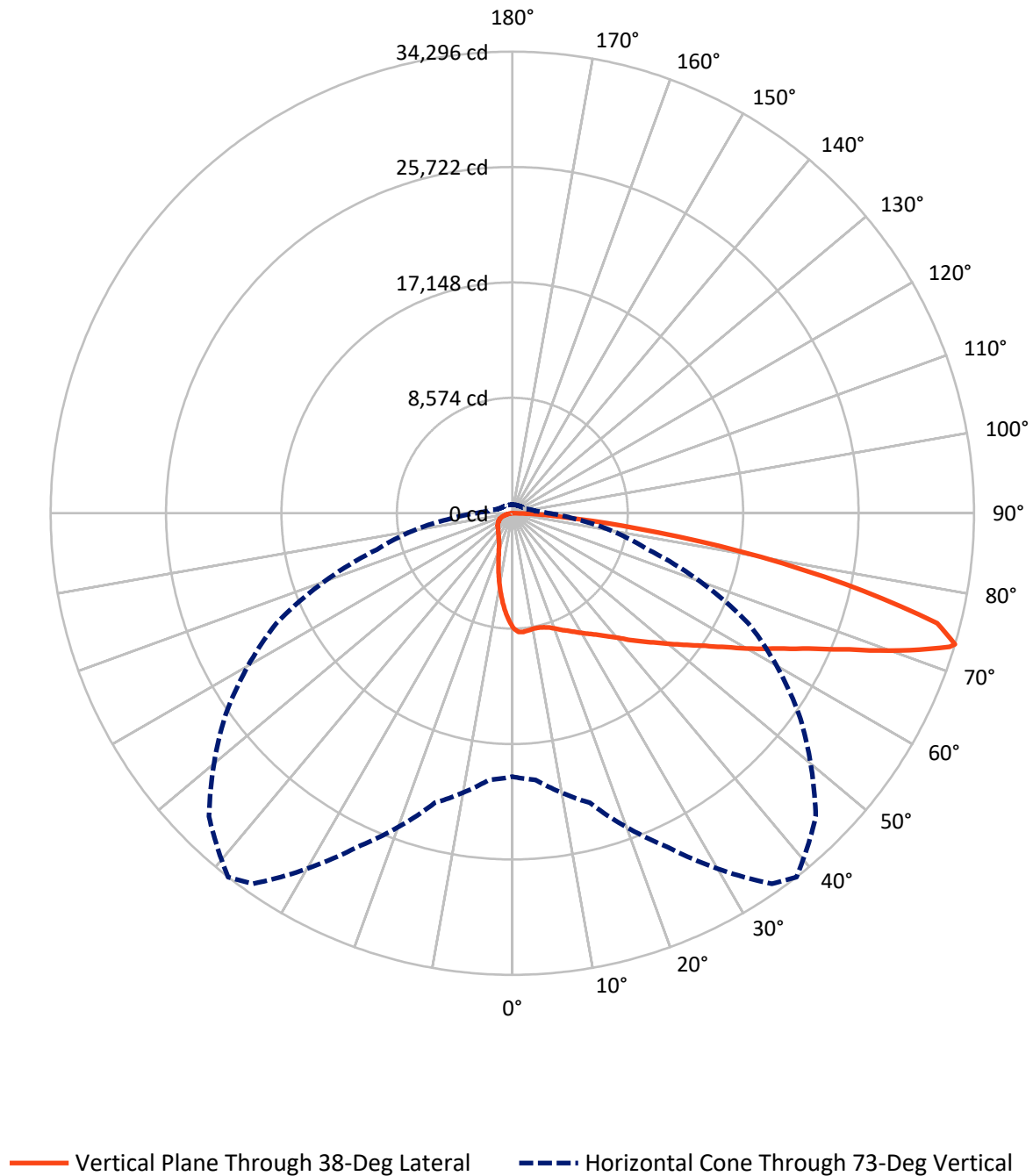


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6531.8	0.0	6531.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42057.2	0.0	42057.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	48589.0	0.0	48589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.1	1.5
10°-20°	1910.7	3.9
20°-30°	2975.4	6.1
30°-40°	4364.2	9.0
40°-50°	6473.8	13.3
50°-60°	9172.1	18.9
60°-70°	11635.1	23.9
70°-80°	9685.3	19.9
80°-90°	1627.3	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°	48589.0	100.0
0°-180°	48589.0	100.0

Coefficient of Utilization



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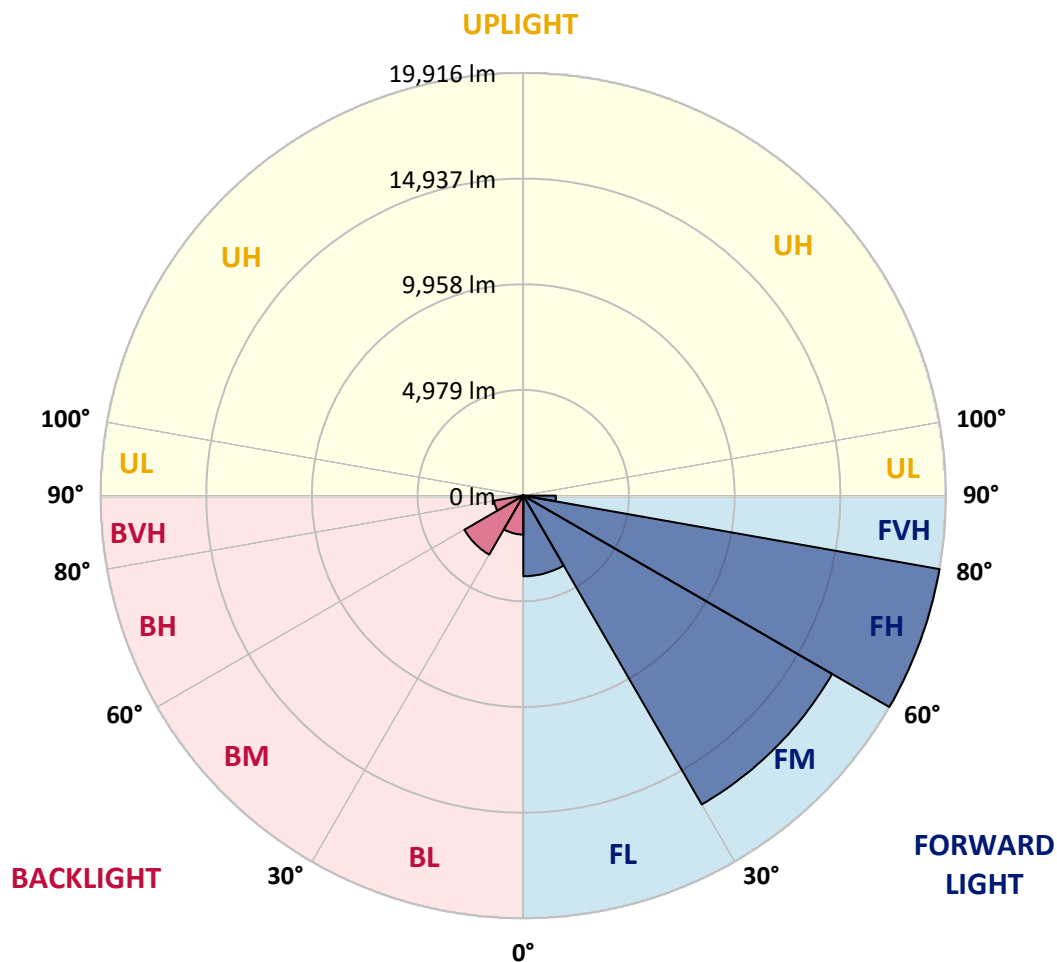
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3798.3	7.8			
FM	(30°-60°)	16803.4	34.6			
FH	(60°-80°)	19916.4	41.0			G5
FVH	(80°-90°)	1539.0	3.2			G5
BL	(0°-30°)	1832.9	3.8	B3/2500		
BM	(30°-60°)	3206.7	6.6	B3/5000		
BH	(60°-80°)	1403.9	2.9	B3/2500		G3/2500
BVH	(80°-90°)	88.2	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°	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3
2.5°	8879.3	8923.2	8901.2	8871.0	8851.8	8832.6	8805.2	8725.6	8662.5	8593.9	8486.9
5°	8945.1	8972.5	8953.3	8914.9	8871.0	8851.8	8799.7	8695.4	8593.9	8478.6	8319.5
7.5°	8906.7	8917.7	8895.7	8849.1	8810.7	8775.0	8714.6	8599.4	8475.9	8336.0	8127.4
10°	8769.5	8810.7	8810.7	8772.2	8733.8	8714.6	8654.3	8544.5	8432.0	8272.8	8025.9
12.5°	8657.0	8700.9	8736.6	8725.6	8722.8	8722.8	8676.2	8593.9	8462.2	8311.3	8017.7
15°	8580.2	8632.3	8709.1	8753.0	8780.5	8788.7	8769.5	8698.2	8563.7	8388.1	8050.6
17.5°	8563.7	8626.8	8766.8	8862.8	8934.1	8931.4	8925.9	8827.1	8678.9	8497.8	8091.8
20°	8637.8	8720.1	8914.9	9065.8	9170.1	9150.9	9120.7	8991.8	8818.9	8615.8	8130.2
22.5°	8860.0	8945.1	9159.1	9323.8	9425.3	9425.3	9334.7	9164.6	8980.8	8753.0	8182.3
25°	9178.3	9271.6	9499.4	9666.7	9713.4	9677.7	9587.2	9381.4	9170.1	8950.6	8292.1
27.5°	9568.0	9680.5	9891.7	10031.7	10018.0	9990.5	9897.2	9633.8	9422.5	9222.2	8478.6
30°	10053.6	10136.0	10355.5	10388.4	10339.0	10333.5	10201.8	9938.4	9740.8	9587.2	8744.8
32.5°	10511.9	10586.0	10761.6	10775.3	10687.5	10698.5	10575.0	10333.5	10221.0	10166.1	9192.1
35°	10997.5	11036.0	11186.9	11170.4	11112.8	11104.6	11055.2	10824.7	10860.3	10959.1	9825.9
37.5°	11403.6	11480.5	11565.5	11579.2	11576.5	11603.9	11636.9	11527.1	11732.9	12043.0	10657.3
40°	11776.8	11842.7	11968.9	12012.8	12119.8	12174.7	12287.2	12289.9	12764.6	13275.0	11680.8
42.5°	12029.2	12141.7	12377.7	12457.3	12718.0	12882.6	13050.0	13228.3	13917.0	14572.8	12888.1
45°	12248.8	12396.9	12789.3	13036.3	13390.2	13590.5	13944.5	14317.7	15308.2	16167.0	14114.6
47.5°	12580.8	12712.5	13162.5	13598.8	14133.8	14364.3	14893.9	15450.9	16746.0	17687.2	15289.0
50°	13041.7	13121.3	13579.5	14290.2	14973.4	15269.8	15969.5	16773.4	18282.6	19188.1	16320.7
52.5°	13631.7	13664.6	14029.5	14976.2	15876.2	16243.9	17171.3	18109.7	19627.1	20491.4	17138.4
55°	14328.6	14273.8	14559.1	15703.3	16907.9	17388.1	18384.1	19462.5	21139.0	21545.1	17733.8
57.5°	15017.3	14932.3	15160.0	16586.9	18181.1	18760.0	19920.7	20856.4	22489.0	22530.1	18150.9
60°	15747.2	15684.1	15955.8	17624.1	19742.3	20428.3	21501.2	22302.4	23795.1	23216.1	18216.7
62.5°	16496.3	16394.8	16781.7	18790.2	21501.2	22124.0	23164.0	23839.0	25076.5	23471.3	17582.9
65°	17223.4	17176.8	17775.0	20175.9	23504.2	24212.1	25221.9	25680.1	26102.7	23087.2	16010.6
67.5°	17997.2	18090.5	19045.4	22025.3	26116.4	27005.4	28094.8	27664.0	26396.3	21267.9	13483.5
70°	19177.1	19237.5	20713.7	24448.1	29483.2	30556.0	31082.9	28369.2	24980.4	17813.4	10136.0
72.5°	19684.7	19950.9	22203.6	26991.7	33308.2	33964.0	32087.1	26796.9	20809.7	12100.6	5325.9
73°	19572.2	19890.5	22272.2	27378.6	33607.3	34296.0	31873.1	25987.4	19344.5	10421.3	4565.8
75°	18170.1	18562.5	21380.4	27054.8	33025.5	32614.0	28432.3	22148.7	13071.9	4738.7	2079.9
77.5°	14336.9	14449.4	16940.8	21846.9	26006.7	25243.9	21278.9	13843.0	5339.6	1761.6	1179.9
80°	7191.8	7606.1	9548.8	12514.9	17390.8	17141.1	13431.4	6546.9	2225.3	1034.4	782.0
82.5°	3460.1	3753.7	4650.9	6102.4	9609.1	9381.4	6651.2	3578.0	1413.1	603.7	461.0
85°	2228.0	2447.6	2960.7	2911.3	3951.2	3772.9	2988.1	2708.2	836.9	315.5	321.0
87.5°	1470.7	1610.7	1931.7	1544.8	1437.8	1300.6	1319.8	1525.6	164.6	120.7	43.9
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°	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3	8536.3
2.5°	8443.0	8407.3	8289.3	8174.1	8064.3	7960.0	7891.4	7800.9	7740.5	7757.0	7781.7
5°	8231.7	8152.1	7943.6	7740.5	7548.5	7320.7	7136.9	6988.7	6876.2	6835.0	6826.8
7.5°	8009.4	7875.0	7575.9	7227.4	6900.9	6618.3	6291.8	6129.9	5940.5	5874.7	5852.7
10°	7875.0	7693.9	7274.1	6788.4	6297.2	5828.0	5474.1	5186.0	4925.3	4875.9	4851.2
12.5°	7836.6	7597.9	7032.6	6407.0	5754.0	5177.7	4653.6	4275.0	4022.6	3964.9	3879.9
15°	7814.6	7518.3	6807.6	6022.9	5194.2	4491.8	3940.2	3498.5	3268.0	3114.3	3117.1
17.5°	7795.4	7427.7	6555.2	5603.0	4711.3	3901.8	3292.7	2894.8	2683.5	2601.2	2593.0
20°	7768.0	7320.7	6264.3	5161.3	4159.7	3364.0	2812.5	2516.2	2373.5	2304.9	2302.1
22.5°	7757.0	7216.4	5979.0	4711.3	3671.3	2949.7	2494.2	2285.7	2195.1	2148.5	2148.5
25°	7784.4	7142.4	5679.9	4283.2	3237.8	2595.7	2274.7	2132.0	2079.9	2055.2	2046.9
27.5°	7869.5	7109.4	5383.5	3855.2	2839.9	2354.3	2126.5	2027.7	1989.3	1970.1	1972.9
30°	8031.4	7106.7	5092.7	3432.6	2543.6	2170.4	2008.5	1939.9	1909.8	1898.8	1896.0
32.5°	8292.1	7167.1	4807.3	3084.1	2293.9	2016.8	1898.8	1849.4	1835.7	1827.4	1824.7
35°	8733.8	7337.2	4524.7	2765.8	2101.8	1879.6	1794.5	1769.8	1750.6	1758.8	1761.6
37.5°	9329.3	7630.8	4255.8	2516.2	1956.4	1778.0	1706.7	1684.8	1673.8	1682.0	1690.2
40°	10127.7	8053.3	4030.8	2315.8	1852.1	1693.0	1629.9	1610.7	1599.7	1613.4	1616.2
42.5°	11008.5	8541.8	3844.2	2159.4	1767.1	1621.6	1561.3	1539.3	1531.1	1539.3	1542.1
45°	11914.0	9109.7	3748.2	2046.9	1695.7	1569.5	1506.4	1481.7	1462.5	1457.0	1465.2
47.5°	12805.8	9603.6	3745.4	1978.3	1638.1	1522.9	1454.3	1426.8	1402.1	1388.4	1385.7
50°	13532.9	9996.0	3811.3	1948.2	1588.7	1470.7	1402.1	1374.7	1341.8	1314.3	1319.8
52.5°	14081.7	10251.2	3841.5	1934.4	1561.3	1415.9	1347.3	1322.6	1284.1	1248.5	1248.5
55°	14435.6	10311.6	3767.4	1920.7	1539.3	1358.2	1284.1	1262.2	1223.8	1188.1	1188.1
57.5°	14556.4	10125.0	3501.2	1887.8	1517.4	1308.8	1221.0	1201.8	1171.6	1136.0	1130.5
60°	14276.5	9493.9	3034.8	1789.0	1473.5	1256.7	1152.4	1144.2	1133.2	1103.0	1100.3
62.5°	13198.1	8154.9	2527.1	1660.1	1399.4	1201.8	1089.3	1103.0	1111.3	1094.8	1092.1
65°	11403.6	6621.0	2159.4	1481.7	1300.6	1125.0	1020.7	1056.4	1078.4	1078.4	1072.9
67.5°	9249.7	5084.4	1819.2	1328.0	1177.1	1020.7	943.9	971.3	987.8	982.3	996.0
70°	6574.4	3443.6	1481.7	1152.4	1020.7	902.7	845.1	845.1	834.1	828.7	828.7
72.5°	3188.4	1967.4	1201.8	963.1	869.8	771.0	724.4	705.2	683.2	680.5	666.8
73°	2664.3	1764.3	1146.9	927.4	834.1	751.8	699.7	669.5	655.8	644.8	642.1
75°	1621.6	1339.0	957.6	782.0	710.7	647.6	600.9	573.5	559.8	551.5	548.8
77.5°	1067.4	998.8	743.6	598.2	543.3	504.9	485.7	458.2	450.0	439.0	439.0
80°	795.7	762.8	532.3	422.6	389.6	356.7	351.2	345.7	323.8	310.1	304.6
82.5°	513.1	543.3	362.2	282.6	247.0	219.5	222.3	230.5	208.5	189.3	183.8
85°	364.9	392.4	219.5	129.0	104.3	90.5	101.5	90.5	93.3	74.1	60.4
87.5°	60.4	104.3	38.4	16.5	8.2	5.5	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)