

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: P533252

Luminaire Tested: **GALN-SA8C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38165 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 429
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

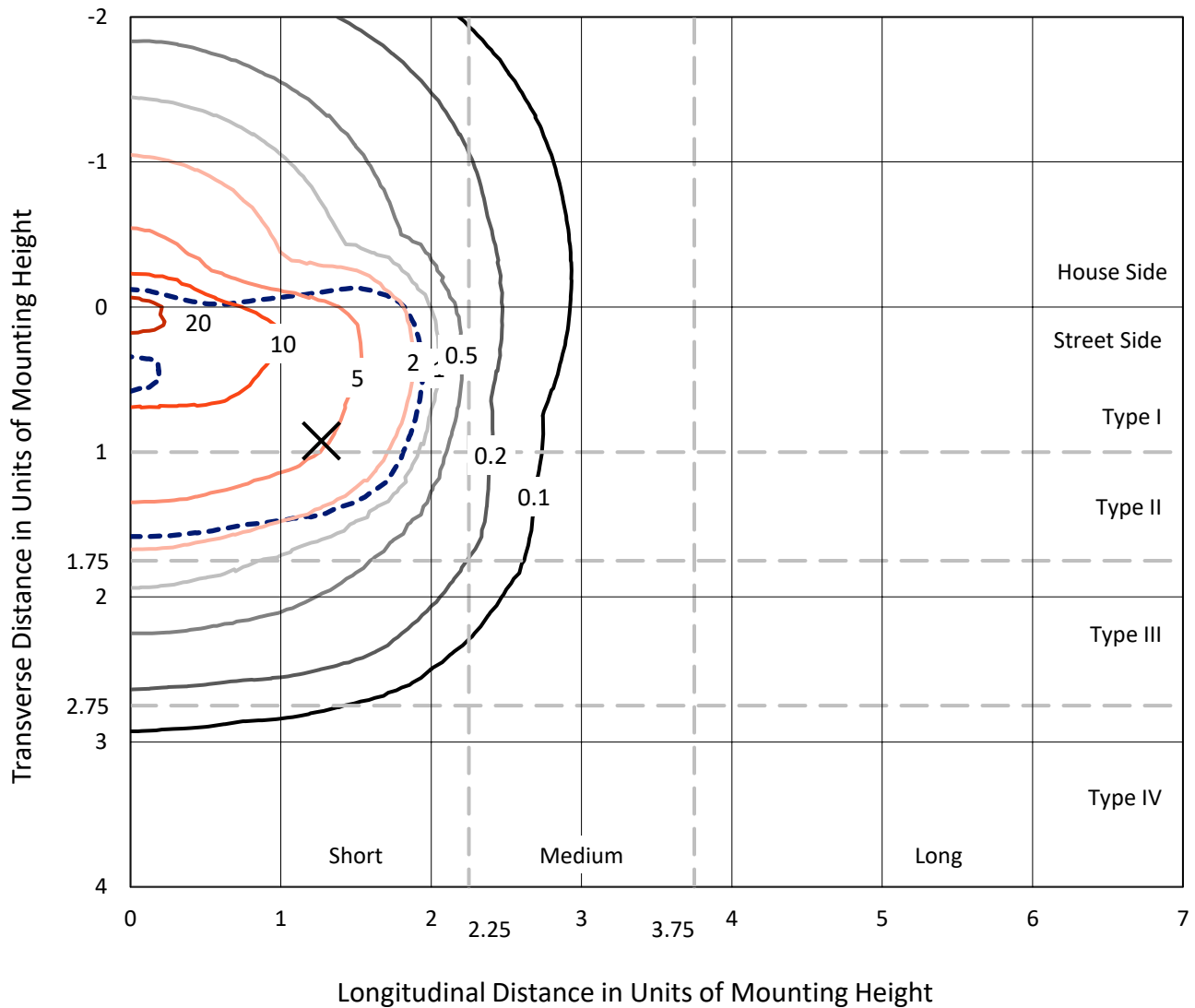


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

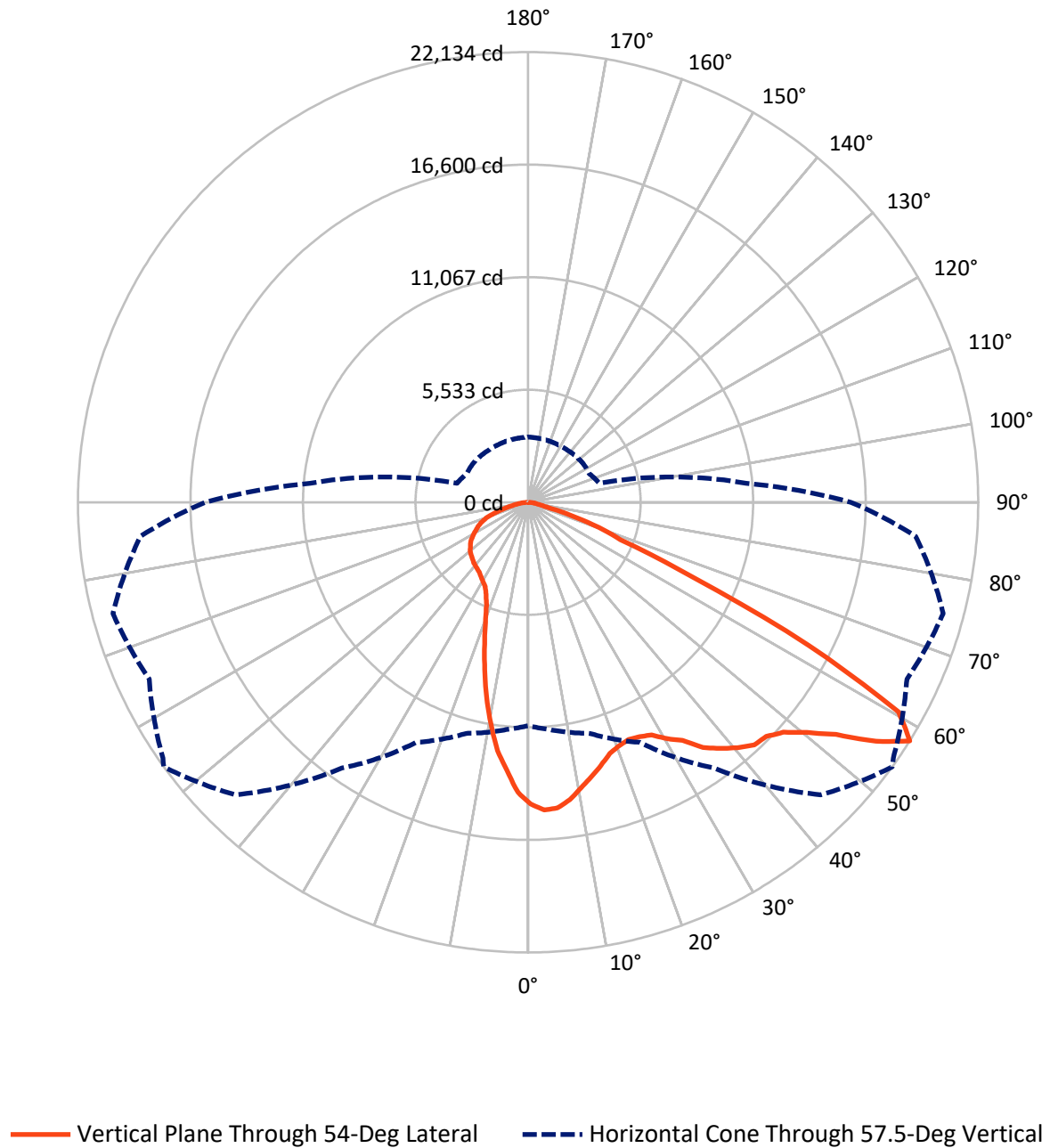


Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10558.6	0.0	10558.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	27606.4	0.0	27606.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	38165.0	0.0	38165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.3	3.4
10°-20°	2962.1	7.8
20°-30°	4161.8	10.9
30°-40°	5818.2	15.2
40°-50°	7876.7	20.6
50°-60°	9594.2	25.1
60°-70°	4997.1	13.1
70°-80°	1280.4	3.4
80°-90°	195.3	0.5
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°	38165.0	100.0
0°-180°	38165.0	100.0

Coefficient of Utilization



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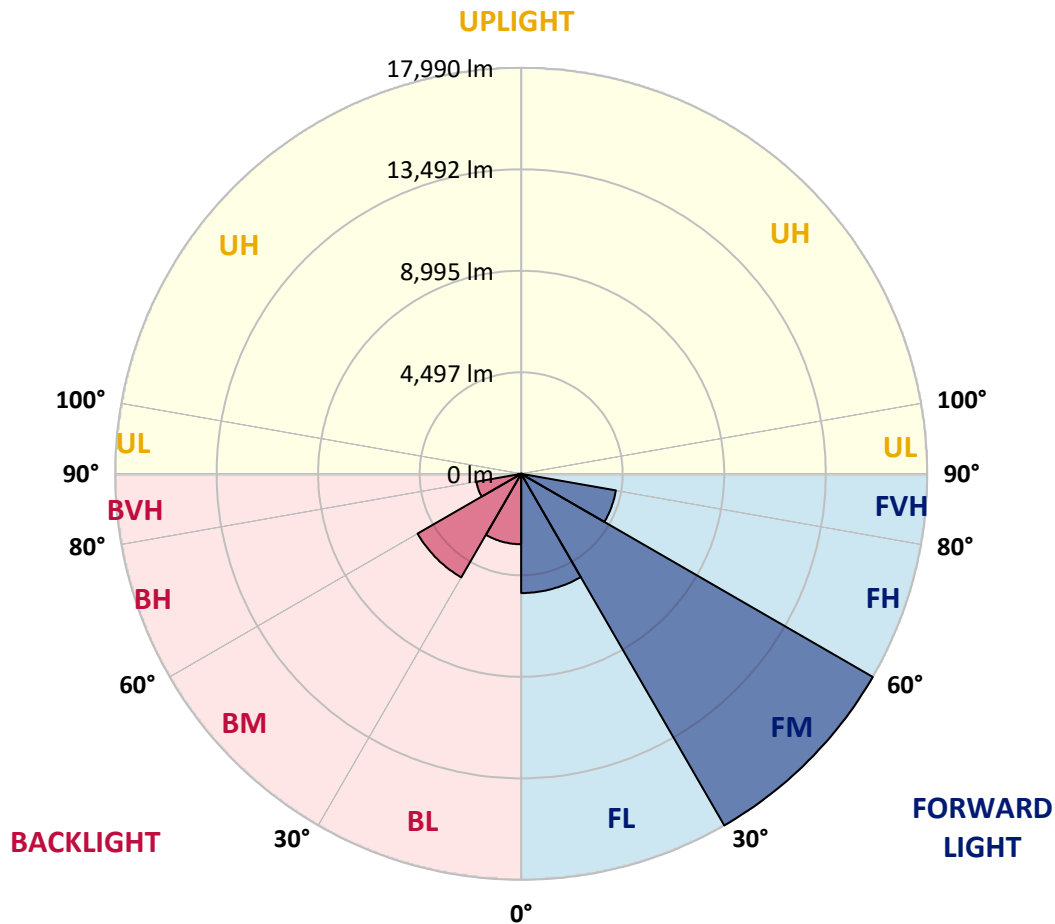
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5282.6	13.8			
FM	(30°-60°)	17989.8	47.1			
FH	(60°-80°)	4260.3	11.2			G2/5000
FVH	(80°-90°)	73.8	0.2			G1/100
BL	(0°-30°)	3120.6	8.2	B4/5000		
BM	(30°-60°)	5299.2	13.9	B4/8500		
BH	(60°-80°)	2017.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	121.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3
2.5°	15256.2	15197.3	15207.1	15285.6	15187.5	15148.3	15148.3	14956.9	14971.7	14839.2	14804.9
5°	14903.0	14765.6	14858.8	14976.6	14996.2	15035.4	15099.2	15050.1	14912.8	14770.5	14540.0
7.5°	13980.7	14103.4	14137.7	14221.1	14397.7	14559.6	14760.7	14623.4	14618.5	14476.2	14338.8
10°	13171.3	13097.7	13284.2	13406.8	13701.1	13970.9	14280.0	14265.3	14338.8	14177.0	13941.5
12.5°	12366.8	12308.0	12396.3	12675.9	13087.9	13480.4	13848.3	13710.9	14103.4	14073.9	13568.7
15°	11513.3	11557.4	11685.0	11944.9	12484.6	12955.5	13421.5	13426.4	13774.7	13892.4	13215.5
17.5°	10914.8	10865.7	11027.6	11415.1	11895.9	12460.0	12989.8	13097.7	13632.4	13701.1	13107.6
20°	10468.4	10537.1	10748.0	10944.2	11498.5	12180.4	12778.9	12818.1	13603.0	13789.4	12935.9
22.5°	10360.5	10321.2	10389.9	10708.8	11165.0	11905.7	12666.1	12813.2	13598.1	13760.0	12612.1
25°	10247.6	10375.2	10370.3	10689.1	11022.7	11685.0	12759.3	12921.1	13858.1	13912.1	12656.2
27.5°	10502.7	10488.0	10625.4	10649.9	11062.0	11743.8	12955.5	13078.1	14289.8	14245.6	12690.6
30°	10757.8	10684.2	10767.6	11057.0	11248.4	12082.3	13495.1	13485.3	14849.0	14819.6	12798.5
32.5°	11071.8	11037.4	11091.4	11346.5	11670.2	12533.6	13951.3	14240.7	15418.1	15604.5	13171.3
35°	11130.6	11272.9	11400.4	11743.8	12204.9	13264.5	14809.8	15050.1	16075.4	16659.2	13882.6
37.5°	11503.4	11557.4	11856.6	12464.9	12886.8	14240.7	15354.3	15506.4	16673.9	17336.1	14633.2
40°	11900.8	11964.6	12415.9	13053.6	13632.4	14878.4	15864.5	15913.5	16865.2	17856.1	15123.7
42.5°	12440.4	12499.3	12945.7	13745.3	14520.3	15423.0	16315.8	16369.7	16850.5	18454.6	15903.7
45°	12999.6	13141.9	13666.8	14574.3	15270.9	16060.7	16418.8	16639.5	16987.8	18989.3	16536.5
47.5°	13784.5	13917.0	14348.7	15236.6	16050.9	16619.9	16894.6	17110.5	17316.5	19455.3	16943.7
50°	14618.5	14643.0	15167.9	15972.4	16570.9	17252.7	17782.5	17856.1	17748.2	19994.9	17635.4
52.5°	15231.6	15310.1	15717.3	16502.2	17395.0	18233.8	18959.8	19038.3	18827.4	20196.0	17870.8
55°	14216.2	14172.1	14834.3	15879.2	17949.3	19695.7	20750.4	20809.2	19612.3	20819.0	18641.0
57.5°	10988.4	11199.3	11763.4	13024.2	15947.9	20343.2	22133.7	21922.8	20554.1	21133.0	19131.5
60°	7986.2	7937.1	8314.9	9158.6	12018.5	17532.3	20927.0	21142.8	19784.0	19048.1	15776.2
62.5°	6504.7	6436.0	6465.5	6494.9	7755.6	11635.9	15491.6	15486.7	15236.6	13691.3	10640.1
65°	5199.9	5361.7	5376.5	5597.2	5759.1	6951.1	8977.1	9457.8	8236.4	6754.9	4900.6
67.5°	3919.5	3860.6	4056.9	4841.8	5145.9	5018.3	4900.6	4954.6	3522.2	2541.1	2393.9
70°	2310.5	2286.0	2521.4	3375.0	4238.4	3988.2	3693.9	3698.8	2418.4	1775.8	1976.9
72.5°	1265.6	1260.7	1309.8	1712.0	2408.6	2501.8	2217.3	2286.0	1442.2	1437.3	1545.2
75°	706.4	691.7	677.0	755.5	868.3	917.3	937.0	946.8	990.9	1108.6	1152.8
77.5°	260.0	250.2	250.2	289.4	367.9	461.1	583.8	593.6	701.5	804.5	848.7
80°	88.3	98.1	132.4	181.5	245.3	328.7	397.3	407.2	495.5	564.1	578.9
82.5°	54.0	58.9	88.3	127.5	176.6	230.6	294.3	299.2	367.9	412.1	431.7
85°	24.5	29.4	49.1	78.5	112.8	152.1	157.0	157.0	152.1	157.0	147.2
87.5°	0.0	0.0	9.8	9.8	9.8	14.7	19.6	14.7	24.5	29.4	29.4
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°	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3	14834.3
2.5°	14701.8	14647.9	14481.1	14333.9	14289.8	14093.6	13804.1	13838.5	13627.5	13725.7	13622.6
5°	14500.7	14319.2	13892.4	13710.9	13235.1	13019.3	12872.1	12504.2	12332.5	12298.1	12151.0
7.5°	13985.6	13872.8	13338.1	12847.6	12342.3	11910.6	11356.3	10978.6	10708.8	10635.2	10419.3
10°	13578.5	13328.3	12587.6	11841.9	11120.8	10370.3	9649.2	9085.0	8810.3	8491.5	8383.5
12.5°	13176.2	12798.5	11797.8	10841.2	9909.2	8962.4	8089.2	7402.4	6804.0	6661.7	6612.6
15°	12926.1	12268.7	11091.4	9938.6	8614.1	7377.9	6504.7	6053.4	5685.5	5533.4	5641.4
17.5°	12597.4	11832.1	10414.4	8879.0	7422.1	6284.0	5553.1	5273.4	5141.0	5155.7	5111.6
20°	12185.3	11420.1	9526.5	7917.5	6357.6	5450.0	5033.1	4930.0	4949.7	4984.0	4969.3
22.5°	11891.0	10919.7	8883.9	6936.4	5494.2	4988.9	4817.2	4743.6	4807.4	4836.8	4812.3
25°	11665.3	10492.9	8103.9	6068.1	4993.8	4728.9	4650.4	4645.5	4743.6	4782.9	4758.4
27.5°	11459.3	10095.6	7328.8	5405.9	4660.2	4527.8	4503.3	4562.1	4625.9	4665.2	4699.5
30°	11336.7	9791.4	6602.8	4851.6	4493.5	4429.7	4385.5	4439.5	4473.8	4513.1	4493.5
32.5°	11454.4	9575.6	5901.3	4537.6	4356.1	4292.3	4351.2	4316.9	4375.7	4410.1	4356.1
35°	11822.3	9384.3	5401.0	4370.8	4199.1	4223.7	4233.5	4218.7	4243.3	4213.8	4277.6
37.5°	12185.3	9315.6	4939.9	4228.6	4125.5	4125.5	4115.7	4086.3	4135.4	4125.5	4155.0
40°	12646.4	9359.7	4547.4	4076.5	4056.9	4047.1	4007.8	4002.9	3983.3	3988.2	3998.0
42.5°	13048.7	9457.8	4321.8	3978.4	3993.1	4012.7	3939.1	3880.3	3904.8	3855.7	3855.7
45°	13475.5	9546.1	4120.6	3909.7	3895.0	3890.1	3831.2	3796.9	3777.3	3782.2	3826.3
47.5°	14147.5	9673.7	3968.6	3816.5	3826.3	3752.7	3738.0	3693.9	3713.5	3742.9	3747.8
50°	14623.4	9943.5	3850.8	3708.6	3742.9	3693.9	3605.6	3585.9	3585.9	3635.0	3625.2
52.5°	14956.9	10321.2	3738.0	3590.8	3605.6	3566.3	3536.9	3492.7	3463.3	3532.0	3566.3
55°	15977.3	10949.1	3708.6	3492.7	3487.8	3448.6	3394.6	3350.5	3335.8	3345.6	3414.2
57.5°	15879.2	10752.9	3615.4	3321.0	3311.2	3257.3	3203.3	3188.6	3183.7	3193.5	3213.1
60°	12891.7	7942.0	3227.8	3124.8	3110.1	3100.3	3046.3	2987.5	2958.0	2987.5	2962.9
62.5°	8530.7	5317.6	2845.2	2889.4	2899.2	2874.6	2786.3	2727.5	2737.3	2771.6	2717.7
65°	4189.3	3124.8	2580.3	2698.0	2707.8	2639.2	2555.8	2487.1	2452.8	2482.2	2457.7
67.5°	2393.9	2389.0	2364.5	2487.1	2482.2	2413.5	2281.1	2222.2	2163.3	2173.1	2158.4
70°	2030.9	2070.1	2119.2	2192.8	2187.9	2109.4	1952.4	1908.2	1824.9	1815.0	1790.5
72.5°	1599.2	1667.9	1775.8	1829.8	1785.6	1687.5	1584.5	1510.9	1437.3	1393.2	1407.9
75°	1187.1	1285.2	1344.1	1378.5	1309.8	1255.8	1172.4	1084.1	995.8	956.6	941.9
77.5°	863.4	892.8	946.8	971.3	927.1	873.2	824.1	735.8	652.4	598.5	583.8
80°	603.4	623.0	662.2	662.2	662.2	637.7	573.9	485.6	431.7	382.6	372.8
82.5°	421.9	441.5	480.7	461.1	456.2	426.8	387.5	318.9	260.0	225.7	215.8
85°	147.2	161.9	196.2	235.5	250.2	245.3	220.7	176.6	137.4	112.8	103.0
87.5°	34.3	34.3	39.2	34.3	34.3	39.2	34.3	34.3	34.3	24.5	19.6
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)