

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: P194125

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37425 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

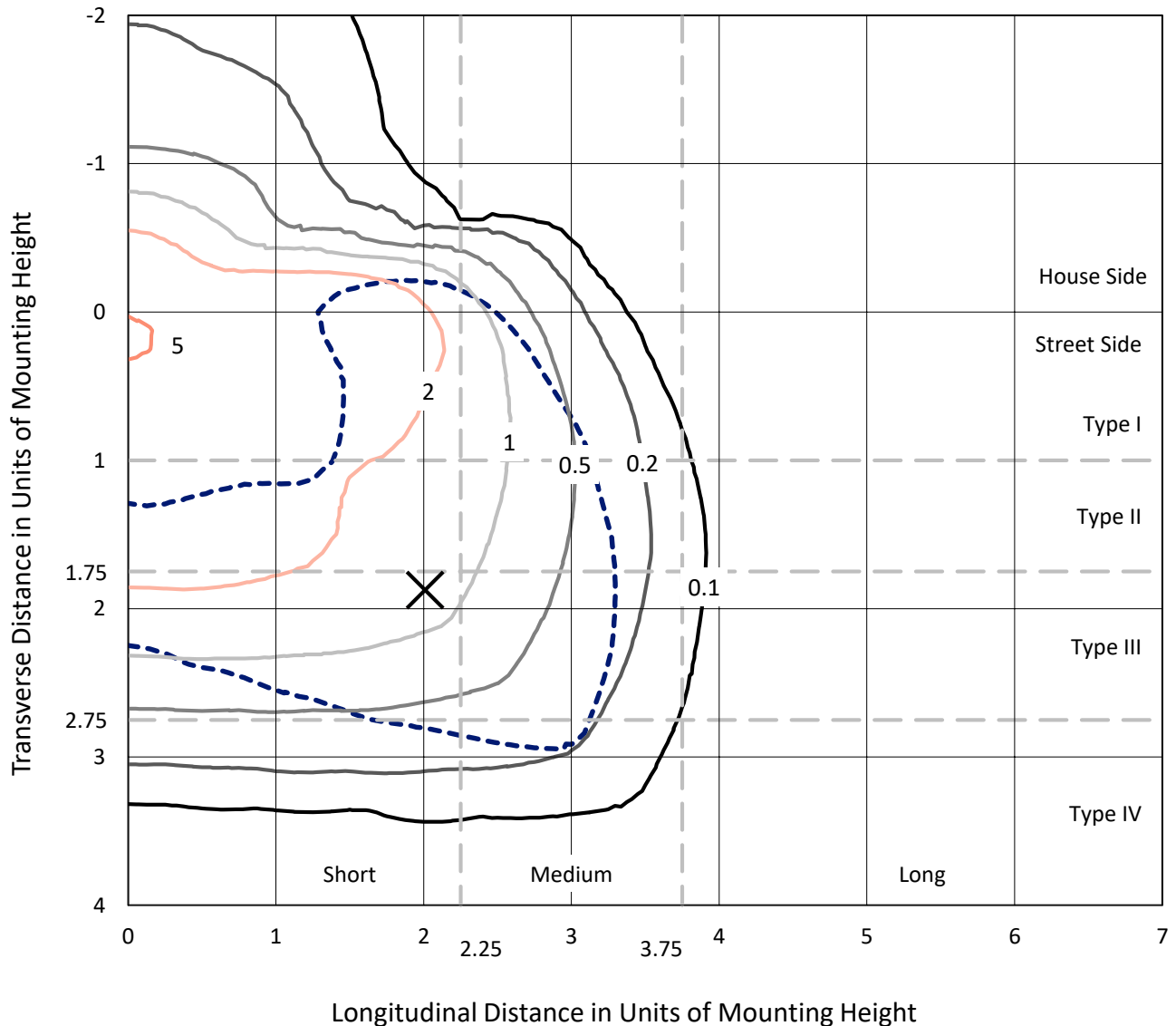
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

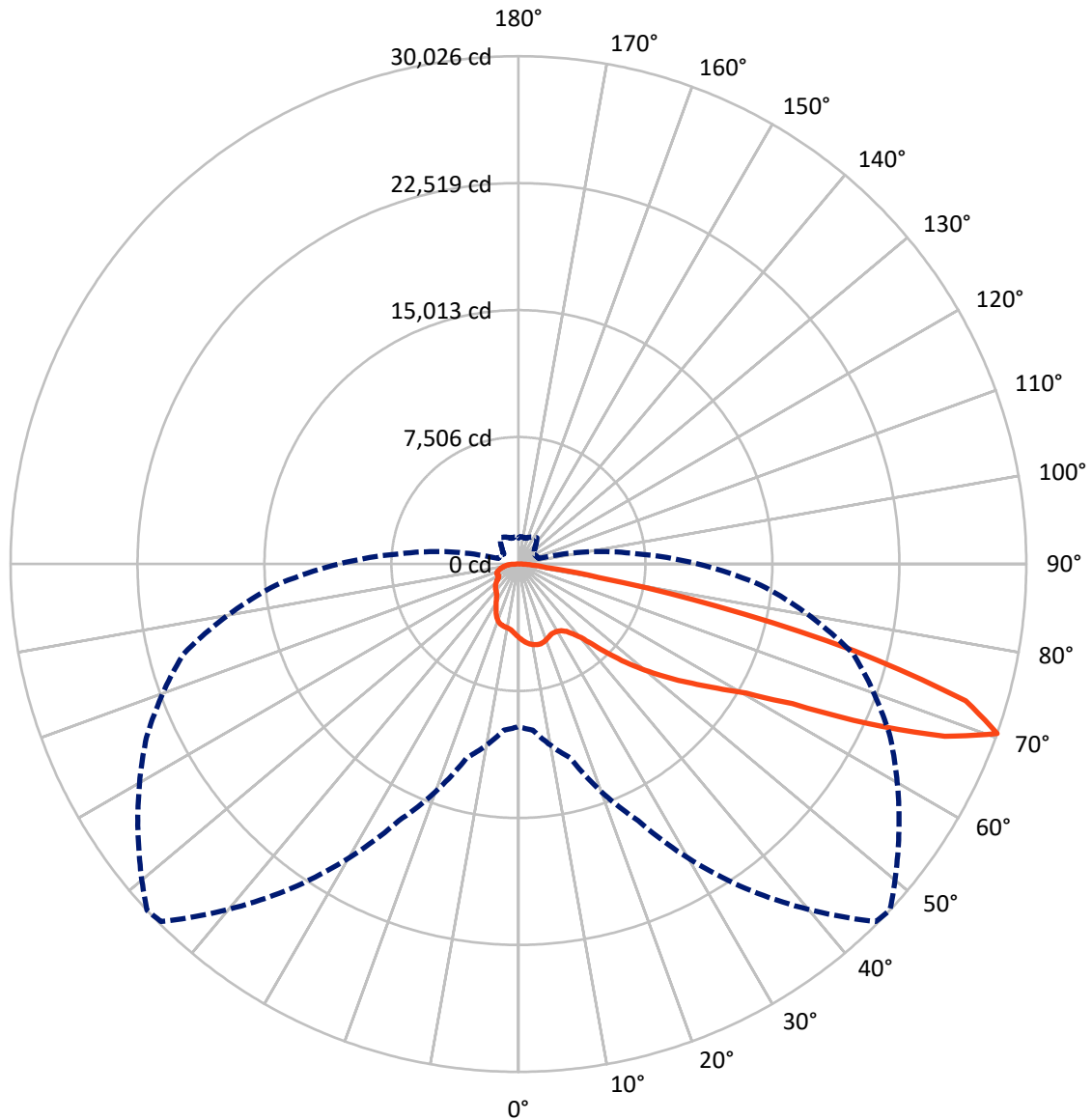
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7807.6	0.0	7807.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29617.4	0.0	29617.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	37425.0	0.0	37425.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	1.1
10°-20°	1220.7	3.3
20°-30°	1802.6	4.8
30°-40°	2620.1	7.0
40°-50°	4715.2	12.6
50°-60°	8168.6	21.8
60°-70°	11658.9	31.2
70°-80°	5985.0	16.0
80°-90°	837.9	2.2
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°	37425.0	100.0
0°-180°	37425.0	100.0



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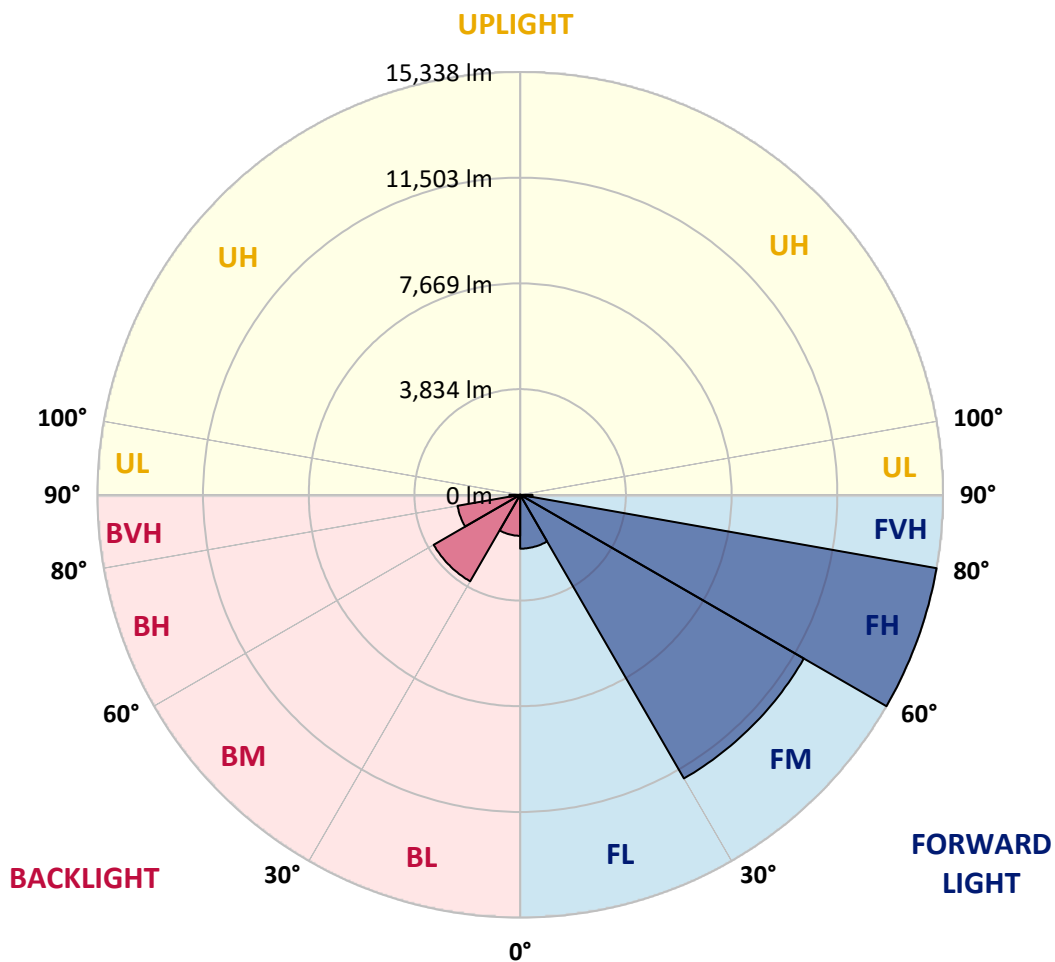
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.8	5.2			
FM	(30°-60°)	11879.7	31.7			
FH	(60°-80°)	15337.8	41.0			G5
FVH	(80°-90°)	447.1	1.2			G3/500
BL	(0°-30°)	1486.6	4.0	B3/2500		
BM	(30°-60°)	3624.0	9.7	B3/5000		
BH	(60°-80°)	2306.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	390.8	1.0			G3/500
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°	45°	47°	55°	65°	75°	85°
0°	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5
2.5°	4597.4	4588.3	4584.6	4577.3	4568.2	4522.7	4513.6	4480.8	4435.3	4388.0	4338.8
5°	4899.6	4897.8	4877.8	4841.3	4783.1	4682.9	4659.3	4579.2	4471.7	4368.0	4264.2
7.5°	5165.4	5149.1	5110.8	5038.0	4936.0	4799.5	4766.7	4655.6	4508.2	4366.1	4225.9
10°	5360.3	5351.2	5267.4	5167.3	5034.3	4883.2	4845.0	4721.2	4559.1	4378.9	4204.1
12.5°	5471.3	5453.1	5356.6	5236.4	5078.0	4930.6	4892.3	4766.7	4584.6	4378.9	4173.1
15°	5464.0	5451.3	5354.8	5223.7	5063.5	4934.2	4899.6	4774.0	4579.2	4360.7	4133.1
17.5°	5318.4	5323.8	5241.9	5112.6	4981.5	4883.2	4852.3	4735.7	4542.7	4324.3	4085.7
20°	5063.5	5089.0	5034.3	4919.6	4846.8	4779.4	4759.4	4661.1	4486.3	4271.5	4034.8
22.5°	4808.6	4832.2	4810.4	4713.9	4703.0	4662.9	4652.0	4581.0	4437.1	4238.7	4003.8
25°	4621.0	4642.9	4639.2	4555.5	4588.3	4586.4	4577.3	4542.7	4426.2	4238.7	4009.3
27.5°	4570.1	4577.3	4570.1	4493.6	4539.1	4575.5	4568.2	4562.8	4459.0	4291.5	4078.5
30°	4744.8	4733.9	4677.5	4522.7	4564.6	4615.6	4608.3	4611.9	4557.3	4429.9	4233.2
32.5°	5442.2	5393.0	5214.6	4779.4	4668.4	4695.7	4699.3	4759.4	4768.5	4642.9	4473.6
35°	6485.5	6430.9	6199.6	5467.7	4990.6	4896.0	4896.0	4987.0	5041.6	4948.8	4846.8
37.5°	7590.7	7530.6	7406.8	6421.8	5668.0	5243.7	5234.6	5298.4	5376.6	5398.5	5424.0
40°	8847.0	8783.3	8817.8	7492.3	6612.9	5846.4	5717.1	5671.6	5882.8	6023.0	6226.9
42.5°	10221.6	10192.5	10205.2	8684.9	7689.0	6747.7	6563.8	6328.9	6583.8	6833.2	7261.1
45°	11494.3	11519.8	11507.1	9961.3	8887.0	7847.4	7652.6	7197.4	7446.8	7874.7	8572.0
47.5°	12608.6	12503.0	12666.9	11356.0	10228.9	9078.2	8837.9	8227.9	8481.0	9009.0	10188.9
50°	13961.4	13946.9	13706.5	13216.8	11851.2	10314.5	9999.5	9293.1	9686.3	10420.1	12226.3
52.5°	15383.4	15119.4	14899.1	14664.2	13571.8	11581.7	11195.7	10354.5	11102.9	12026.0	14709.8
55°	15674.8	15556.4	15829.5	16224.6	15230.5	12898.1	12448.4	11685.5	12697.8	13861.3	17573.8
57.5°	16297.4	16295.6	16860.1	17564.7	16938.3	14294.6	13841.3	13293.2	14491.3	15964.2	20614.4
60°	16718.0	16836.4	17885.1	19252.5	18615.2	15907.8	15490.9	15148.6	16530.5	18314.8	23447.5
62.5°	16938.3	17098.6	18529.7	19937.1	20985.9	18593.4	18176.4	17683.0	19228.8	20893.0	25104.4
65°	16022.5	16337.5	18429.5	20528.8	23061.5	22946.8	22759.3	21892.6	22602.7	22930.4	24505.3
67.5°	13488.0	13810.3	16246.5	19977.2	24543.6	27145.4	27185.5	25705.2	24678.3	23105.2	20603.5
70°	9609.9	9862.9	11878.5	16749.0	23414.7	29889.3	30025.8	27462.2	24265.0	20490.6	14394.8
72.5°	4562.8	4717.5	6625.7	10900.8	18580.7	27385.8	27649.8	25219.1	20632.6	15170.4	7852.9
75°	1676.9	1724.2	2239.5	4637.4	10777.0	20195.6	20507.0	18078.1	13677.4	7552.4	2991.5
77.5°	1005.0	1036.0	1256.3	1957.3	4238.7	11543.5	12004.1	9832.0	5977.5	2811.2	1471.2
80°	702.8	724.7	901.3	1218.1	2002.8	4398.9	4808.6	4012.9	2381.5	1778.9	1070.6
82.5°	475.2	486.1	633.6	823.0	1331.0	1571.3	1695.1	1784.3	1605.9	1323.7	679.1
85°	311.3	322.3	429.7	542.6	846.6	812.1	830.3	1050.6	1172.6	899.4	376.9
87.5°	178.4	185.7	258.5	289.5	415.1	344.1	347.8	553.5	750.1	606.3	229.4
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°	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5	4342.5
2.5°	4326.1	4302.4	4249.6	4216.8	4185.9	4178.6	4165.9	4164.0	4162.2	4162.2	4156.7
5°	4229.6	4189.5	4107.6	4062.1	4023.8	4020.2	4018.4	4027.5	4031.1	4034.8	4029.3
7.5°	4167.7	4113.1	4011.1	3945.5	3900.0	3889.1	3907.3	3949.2	3976.5	3987.4	3982.0
10°	4129.4	4062.1	3943.7	3872.7	3834.5	3829.0	3852.7	3901.8	3958.3	3980.1	3978.3
12.5°	4085.7	4009.3	3883.6	3809.0	3787.1	3798.1	3829.0	3874.5	3932.8	3967.4	3969.2
15°	4042.0	3952.8	3823.6	3758.0	3748.9	3763.5	3792.6	3827.2	3872.7	3907.3	3910.9
17.5°	3989.2	3896.4	3767.1	3699.7	3692.5	3699.7	3701.6	3719.8	3748.9	3781.7	3790.8
20°	3932.8	3838.1	3703.4	3636.0	3603.2	3574.1	3541.3	3545.0	3554.1	3586.9	3594.1
22.5°	3892.7	3798.1	3654.2	3561.4	3474.0	3386.6	3321.0	3311.9	3315.6	3342.9	3352.0
25°	3896.4	3796.2	3641.5	3481.3	3290.1	3149.9	3062.5	3047.9	3046.1	3066.1	3078.9
27.5°	3967.4	3867.3	3688.8	3399.3	3089.8	2882.2	2789.4	2778.4	2763.9	2769.3	2783.9
30°	4125.8	4032.9	3803.5	3315.6	2873.1	2620.0	2523.5	2512.6	2492.6	2483.5	2494.4
32.5°	4384.3	4307.9	3971.0	3235.5	2656.5	2396.1	2297.8	2274.1	2261.4	2250.4	2259.5
35°	4814.0	4781.3	4195.0	3148.1	2465.3	2223.1	2133.9	2097.5	2079.3	2099.3	2113.9
37.5°	5487.7	5505.9	4488.1	3011.5	2317.8	2108.4	2033.8	1991.9	1964.6	1981.0	1997.4
40°	6441.8	6454.5	4812.2	2818.5	2190.4	2041.0	1960.9	1922.7	1884.5	1855.3	1853.5
42.5°	7694.4	7565.2	5130.8	2609.1	2042.9	1999.2	1910.0	1862.6	1804.4	1724.2	1707.9
45°	9180.2	8726.8	5373.0	2368.8	1877.2	1948.2	1853.5	1788.0	1696.9	1609.5	1600.4
47.5°	10891.7	9974.0	5491.4	2119.3	1722.4	1873.5	1784.3	1680.5	1565.8	1522.1	1516.7
50°	12981.9	11454.3	5547.8	1877.2	1587.7	1775.2	1684.2	1562.2	1465.7	1456.6	1451.1
52.5°	15361.6	13235.0	5566.0	1678.7	1476.6	1647.8	1602.3	1483.9	1407.4	1414.7	1414.7
55°	17852.4	15073.9	5318.4	1534.9	1374.7	1516.7	1547.6	1453.0	1389.2	1418.4	1429.3
57.5°	20139.2	16703.5	4539.1	1423.8	1278.2	1416.5	1527.6	1482.1	1438.4	1556.7	1564.0
60°	21894.4	17666.6	3390.2	1323.7	1207.2	1381.9	1580.4	1593.1	1604.1	1886.3	1924.5
62.5°	22262.2	17346.2	2330.5	1245.4	1174.4	1411.1	1676.9	1678.7	1666.0	1862.6	1886.3
65°	20574.4	15319.7	1695.1	1201.7	1147.1	1463.9	1758.8	1720.6	1636.8	1786.1	1742.4
67.5°	16339.3	11541.7	1411.1	1168.9	1107.0	1460.2	1846.2	1758.8	1620.5	1749.7	1678.7
70°	10605.8	6978.9	1256.3	1141.6	1059.7	1391.0	1897.2	1755.2	1573.1	1627.7	1544.0
72.5°	5174.5	3120.7	1152.5	1101.5	1010.5	1294.5	1895.4	1722.4	1524.0	1520.3	1474.8
75°	2024.7	1429.3	1057.8	1041.5	926.8	1185.3	1844.4	1675.1	1465.7	1407.4	1391.0
77.5°	1185.3	1019.6	937.7	952.2	826.6	1076.1	1769.8	1593.1	1385.6	1316.4	1298.2
80°	863.0	762.9	799.3	823.0	706.4	966.8	1669.6	1493.0	1296.4	1331.0	1305.5
82.5°	553.5	491.6	648.2	671.9	588.1	855.7	1560.4	1387.4	1170.7	1063.3	1037.8
85°	282.2	311.3	482.5	511.6	453.4	702.8	1427.5	1247.2	1028.7	884.9	899.4
87.5°	158.4	213.0	307.7	344.1	320.5	540.8	1158.0	1028.7	839.4	682.8	600.8
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)