

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: P194116

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194116
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-08-LED-E1-T4W-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38656 lumens
Efficiency: N/A
Efficacy: 86.9 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

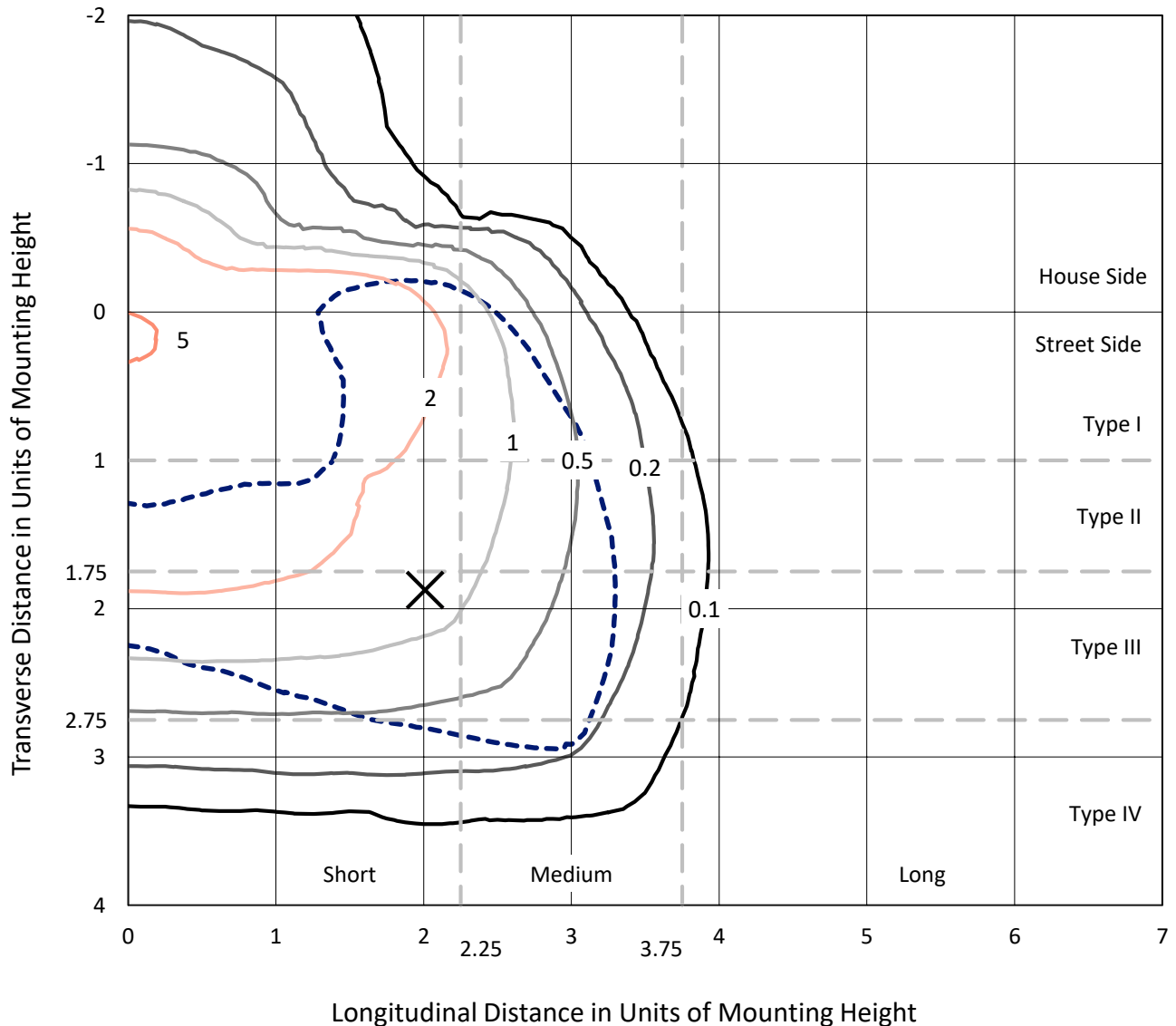
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

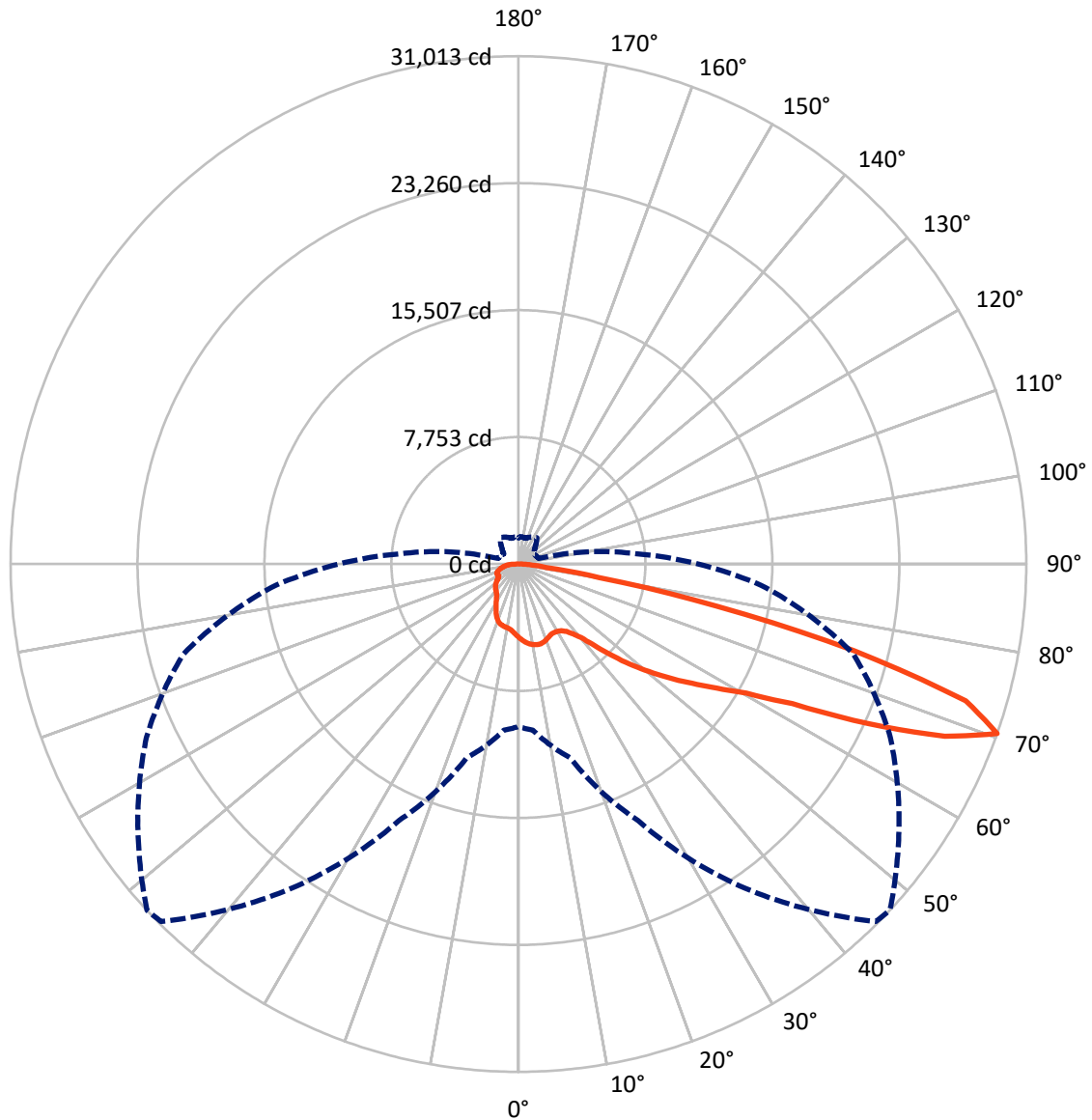
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	8064.4	0.0	8064.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	30591.6	0.0	30591.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	38656.0	0.0	38656.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	1.1
10°-20°	1260.8	3.3
20°-30°	1861.9	4.8
30°-40°	2706.2	7.0
40°-50°	4870.3	12.6
50°-60°	8437.2	21.8
60°-70°	12042.4	31.2
70°-80°	6181.9	16.0
80°-90°	865.5	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°	38656.0	100.0
0°-180°	38656.0	100.0



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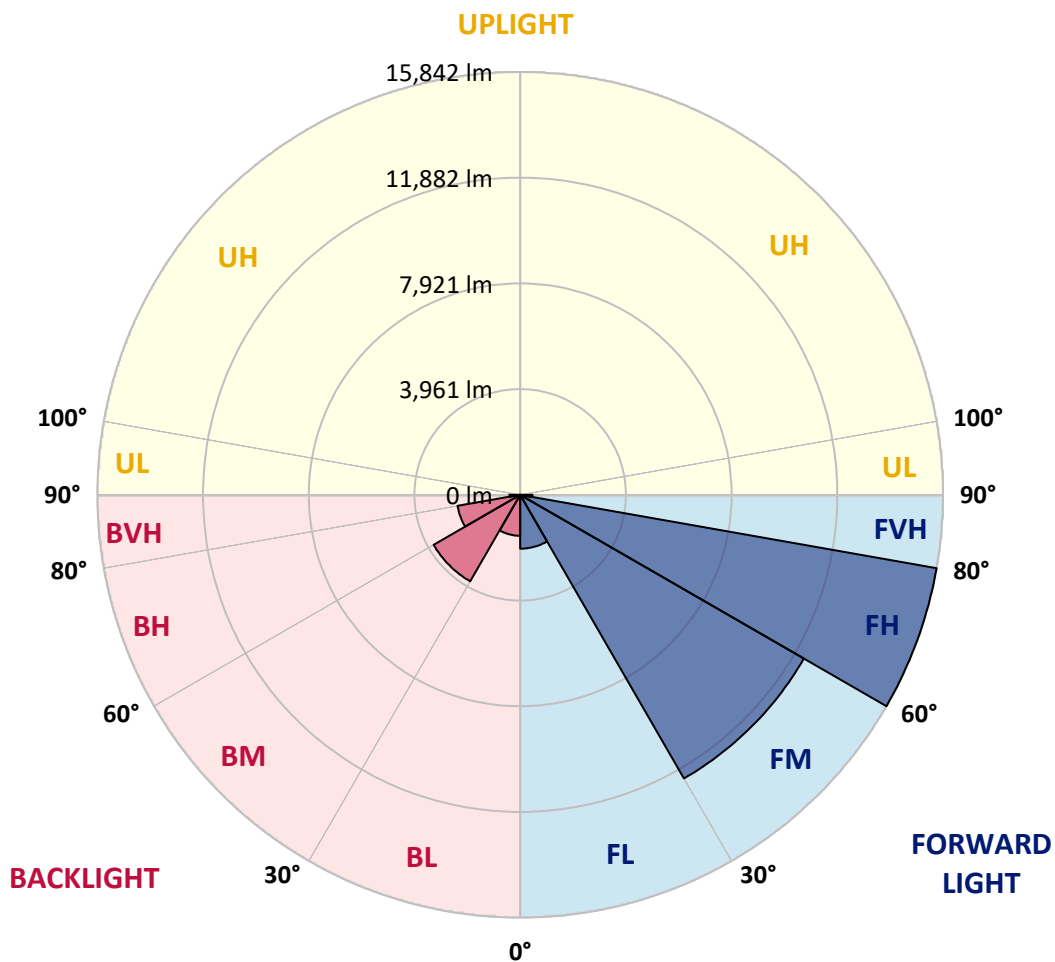
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.0	5.2			
FM	(30°-60°)	12270.5	31.7			
FH	(60°-80°)	15842.3	41.0			G5
FVH	(80°-90°)	461.8	1.2			G3/500
BL	(0°-30°)	1535.5	4.0	B3/2500		
BM	(30°-60°)	3743.3	9.7	B3/5000		
BH	(60°-80°)	2382.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	403.7	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°	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3
2.5°	4748.6	4739.2	4735.4	4727.9	4718.5	4671.5	4662.1	4628.2	4581.2	4532.3	4481.5
5°	5060.8	5058.9	5038.2	5000.6	4940.4	4837.0	4812.5	4729.8	4618.8	4511.6	4404.4
7.5°	5335.3	5318.4	5278.9	5203.7	5098.4	4957.3	4923.5	4808.8	4656.4	4509.7	4364.9
10°	5536.6	5527.2	5440.7	5337.2	5199.9	5043.8	5004.4	4876.5	4709.1	4522.9	4342.4
12.5°	5651.3	5632.5	5532.8	5408.7	5245.1	5092.7	5053.2	4923.5	4735.4	4522.9	4310.4
15°	5643.8	5630.6	5530.9	5395.5	5230.0	5096.5	5060.8	4931.0	4729.8	4504.1	4269.0
17.5°	5493.3	5499.0	5414.3	5280.8	5145.4	5043.8	5011.9	4891.5	4692.2	4466.5	4220.1
20°	5230.0	5256.4	5199.9	5081.5	5006.2	4936.7	4916.0	4814.4	4633.9	4412.0	4167.5
22.5°	4966.7	4991.2	4968.6	4868.9	4857.7	4816.3	4805.0	4731.7	4583.1	4378.1	4135.5
25°	4773.0	4795.6	4791.8	4705.3	4739.2	4737.3	4727.9	4692.2	4571.8	4378.1	4141.1
27.5°	4720.4	4727.9	4720.4	4641.4	4688.4	4726.0	4718.5	4712.9	4605.7	4432.6	4212.6
30°	4900.9	4889.6	4831.3	4671.5	4714.7	4767.4	4759.9	4763.6	4707.2	4575.6	4372.5
32.5°	5621.2	5570.4	5386.1	4936.7	4821.9	4850.1	4853.9	4916.0	4925.4	4795.6	4620.7
35°	6698.8	6642.4	6403.5	5647.5	5154.8	5057.0	5057.0	5151.0	5207.5	5111.5	5006.2
37.5°	7840.3	7778.3	7650.4	6633.0	5854.4	5416.2	5406.8	5472.6	5553.5	5576.1	5602.4
40°	9138.0	9072.2	9107.9	7738.8	6830.4	6038.7	5905.2	5858.2	6076.3	6221.1	6431.8
42.5°	10557.8	10527.8	10540.9	8970.6	7941.9	6969.6	6779.7	6537.1	6800.4	7058.0	7499.9
45°	11872.4	11898.7	11885.6	10288.9	9179.3	8105.5	7904.3	7434.1	7691.8	8133.7	8854.0
47.5°	13023.4	12914.3	13083.5	11729.5	10565.4	9376.8	9128.6	8498.6	8760.0	9305.4	10524.0
50°	14420.7	14405.6	14157.4	13651.5	12241.0	10653.8	10328.4	9598.7	10004.9	10762.8	12628.4
52.5°	15889.4	15616.7	15389.2	15146.6	14018.2	11962.7	11564.0	10695.1	11468.1	12421.6	15193.6
55°	16190.3	16068.1	16350.2	16758.3	15731.5	13322.4	12857.9	12069.9	13115.5	14317.2	18151.8
57.5°	16833.5	16831.6	17414.6	18142.4	17495.5	14764.8	14296.5	13730.5	14967.9	16489.4	21292.5
60°	17267.9	17390.2	18473.4	19885.8	19227.5	16431.1	16000.4	15646.8	17074.2	18917.2	24218.7
62.5°	17495.5	17661.0	19139.2	20592.9	21676.1	19205.0	18774.3	18264.7	19861.3	21580.2	25930.1
65°	16549.5	16874.9	19035.7	21204.1	23820.0	23701.6	23507.9	22612.7	23346.1	23684.6	25311.4
67.5°	13931.7	14264.6	16780.8	20634.3	25350.9	28038.3	28079.7	26550.7	25490.0	23865.2	21281.2
70°	9926.0	10187.4	12269.2	17299.9	24184.9	30872.4	31013.4	28365.5	25063.1	21164.6	14868.3
72.5°	4712.9	4872.7	6843.6	11259.3	19191.8	28286.5	28559.2	26048.6	21311.3	15669.4	8111.2
75°	1732.1	1781.0	2313.2	4790.0	11131.4	20859.9	21181.5	18672.8	14127.3	7800.8	3089.9
77.5°	1038.1	1070.1	1297.6	2021.7	4378.1	11923.2	12399.0	10155.4	6174.1	2903.7	1519.5
80°	725.9	748.5	930.9	1258.1	2068.7	4543.6	4966.7	4144.9	2459.9	1837.4	1105.8
82.5°	490.8	502.1	654.5	850.0	1374.7	1623.0	1750.9	1843.0	1658.7	1367.2	701.5
85°	321.6	332.9	443.8	560.4	874.5	838.8	857.6	1085.1	1211.1	929.0	389.3
87.5°	184.3	191.8	267.0	299.0	428.8	355.4	359.2	571.7	774.8	626.2	237.0
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°	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3	4485.3
2.5°	4468.4	4443.9	4389.4	4355.5	4323.6	4316.0	4302.9	4301.0	4299.1	4299.1	4293.5
5°	4368.7	4327.3	4242.7	4195.7	4156.2	4152.4	4150.5	4160.0	4163.7	4167.5	4161.8
7.5°	4304.8	4248.3	4143.0	4075.3	4028.3	4017.0	4035.8	4079.1	4107.3	4118.6	4112.9
10°	4265.3	4195.7	4073.4	4000.1	3960.6	3955.0	3979.4	4030.2	4088.5	4111.1	4109.2
12.5°	4220.1	4141.1	4011.4	3934.3	3911.7	3923.0	3955.0	4002.0	4062.2	4097.9	4099.8
15°	4175.0	4082.8	3949.3	3881.6	3872.2	3887.3	3917.3	3953.1	4000.1	4035.8	4039.6
17.5°	4120.5	4024.5	3891.0	3821.4	3813.9	3821.4	3823.3	3842.1	3872.2	3906.1	3915.5
20°	4062.2	3964.4	3825.2	3755.6	3721.8	3691.7	3657.8	3661.6	3671.0	3704.8	3712.4
22.5°	4020.8	3923.0	3774.4	3678.5	3588.2	3498.0	3430.3	3420.9	3424.6	3452.8	3462.2
25°	4024.5	3921.1	3761.3	3595.8	3398.3	3253.5	3163.2	3148.2	3146.3	3167.0	3180.1
27.5°	4097.9	3994.5	3810.2	3511.1	3191.4	2977.0	2881.1	2869.8	2854.8	2860.4	2875.5
30°	4261.5	4165.6	3928.6	3424.6	2967.6	2706.2	2606.6	2595.3	2574.6	2565.2	2576.5
32.5°	4528.6	4449.6	4101.7	3341.9	2743.8	2474.9	2373.4	2348.9	2335.7	2324.5	2333.9
35°	4972.4	4938.5	4333.0	3251.6	2546.4	2296.2	2204.1	2166.5	2147.7	2168.4	2183.4
37.5°	5668.2	5687.0	4635.7	3110.6	2394.0	2177.8	2100.7	2057.4	2029.2	2046.1	2063.0
40°	6653.7	6666.8	4970.5	2911.2	2262.4	2108.2	2025.4	1985.9	1946.5	1916.4	1914.5
42.5°	7947.5	7814.0	5299.6	2694.9	2110.1	2064.9	1972.8	1923.9	1863.7	1781.0	1764.0
45°	9482.1	9013.9	5549.7	2446.7	1938.9	2012.3	1914.5	1846.8	1752.7	1662.5	1653.1
47.5°	11249.9	10302.1	5672.0	2189.1	1779.1	1935.2	1843.0	1735.8	1617.3	1572.2	1566.6
50°	13408.9	11831.0	5730.3	1938.9	1639.9	1833.6	1739.6	1613.6	1513.9	1504.5	1498.9
52.5°	15866.9	13670.3	5749.1	1733.9	1525.2	1702.0	1655.0	1532.7	1453.7	1461.2	1461.2
55°	18439.6	15569.7	5493.3	1585.4	1419.9	1566.6	1598.5	1500.7	1434.9	1465.0	1476.3
57.5°	20801.6	17252.9	4688.4	1470.7	1320.2	1463.1	1577.8	1530.8	1485.7	1607.9	1615.5
60°	22614.6	18247.7	3501.7	1367.2	1246.9	1427.4	1632.4	1645.6	1656.8	1948.3	1987.8
62.5°	22994.4	17916.7	2407.2	1286.4	1213.0	1457.5	1732.1	1733.9	1720.8	1923.9	1948.3
65°	21251.1	15823.6	1750.9	1241.2	1184.8	1512.0	1816.7	1777.2	1690.7	1844.9	1799.8
67.5°	16876.8	11921.3	1457.5	1207.4	1143.4	1508.3	1907.0	1816.7	1673.8	1807.3	1733.9
70°	10954.7	7208.4	1297.6	1179.2	1094.5	1436.8	1959.6	1812.9	1624.9	1681.3	1594.8
72.5°	5344.7	3223.4	1190.4	1137.8	1043.7	1337.1	1957.7	1779.1	1574.1	1570.3	1523.3
75°	2091.3	1476.3	1092.6	1075.7	957.2	1224.3	1905.1	1730.2	1513.9	1453.7	1436.8
77.5°	1224.3	1053.2	968.5	983.6	853.8	1111.5	1828.0	1645.6	1431.2	1359.7	1340.9
80°	891.4	788.0	825.6	850.0	729.7	998.6	1724.5	1542.1	1339.0	1374.7	1348.4
82.5°	571.7	507.8	669.5	694.0	607.4	883.9	1611.7	1433.0	1209.2	1098.3	1072.0
85°	291.5	321.6	498.4	528.5	468.3	725.9	1474.4	1288.2	1062.6	914.0	929.0
87.5°	163.6	220.0	317.8	355.4	331.0	558.5	1196.1	1062.6	867.0	705.2	620.6
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)