

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: P269597

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269597
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 41157.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

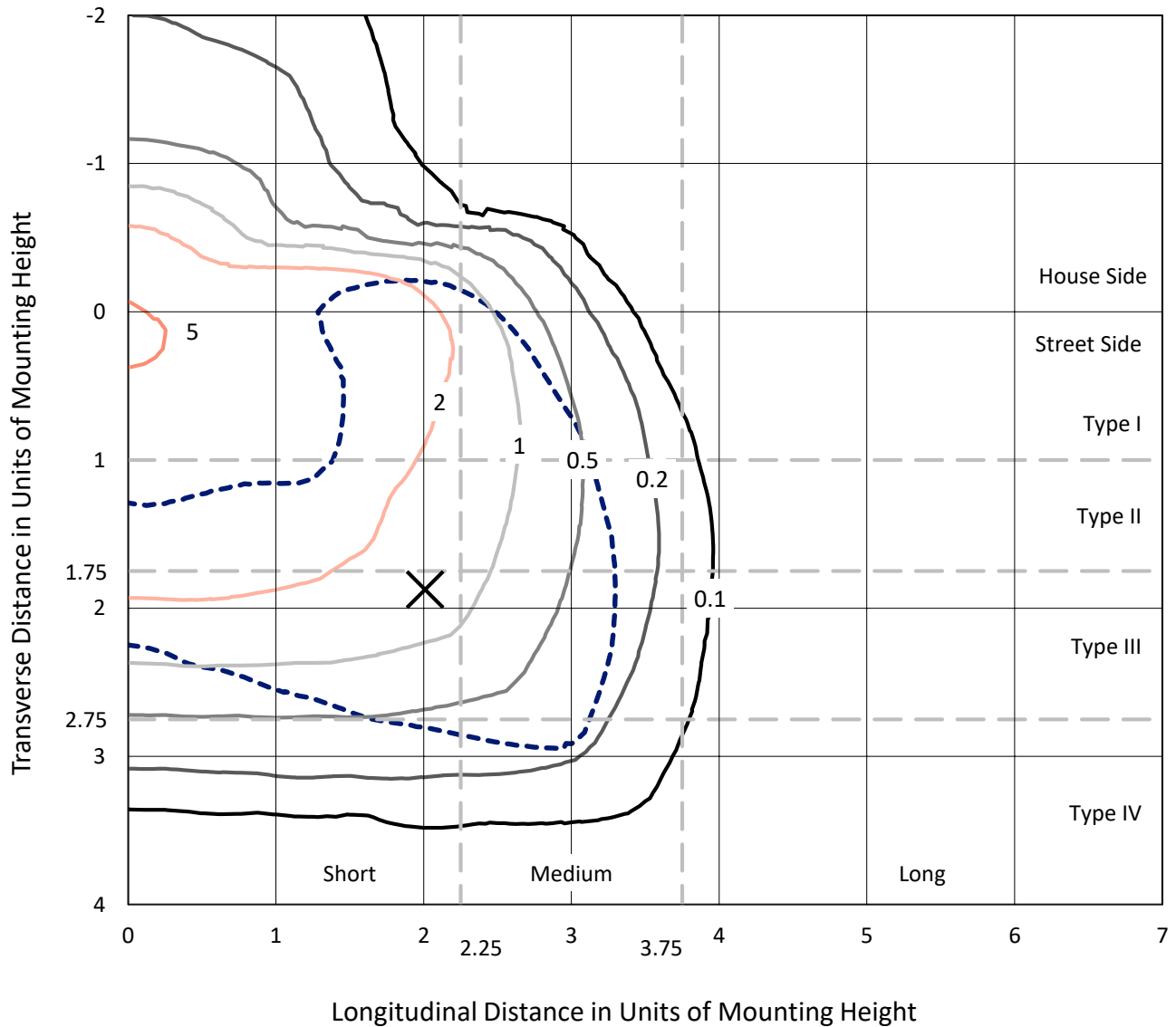
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

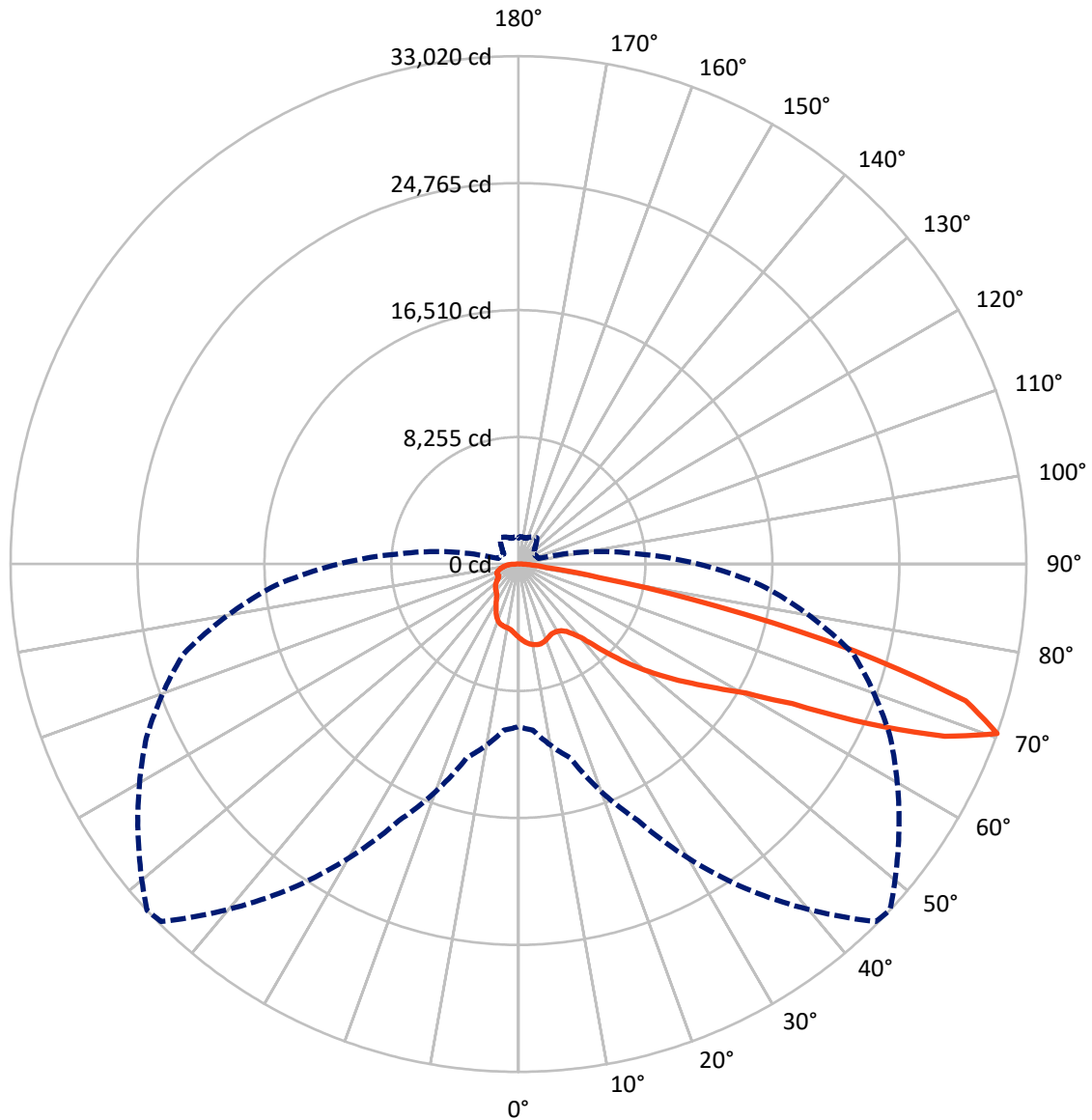
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	8586.3	0.0	8586.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	32571.2	0.0	32571.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	41157.5	0.0	41157.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.6	1.1
10°-20°	1342.4	3.3
20°-30°	1982.4	4.8
30°-40°	2881.4	7.0
40°-50°	5185.4	12.6
50°-60°	8983.2	21.8
60°-70°	12821.6	31.2
70°-80°	6581.9	16.0
80°-90°	921.5	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°	41157.5	100.0
0°-180°	41157.5	100.0

Coefficient of Utilization



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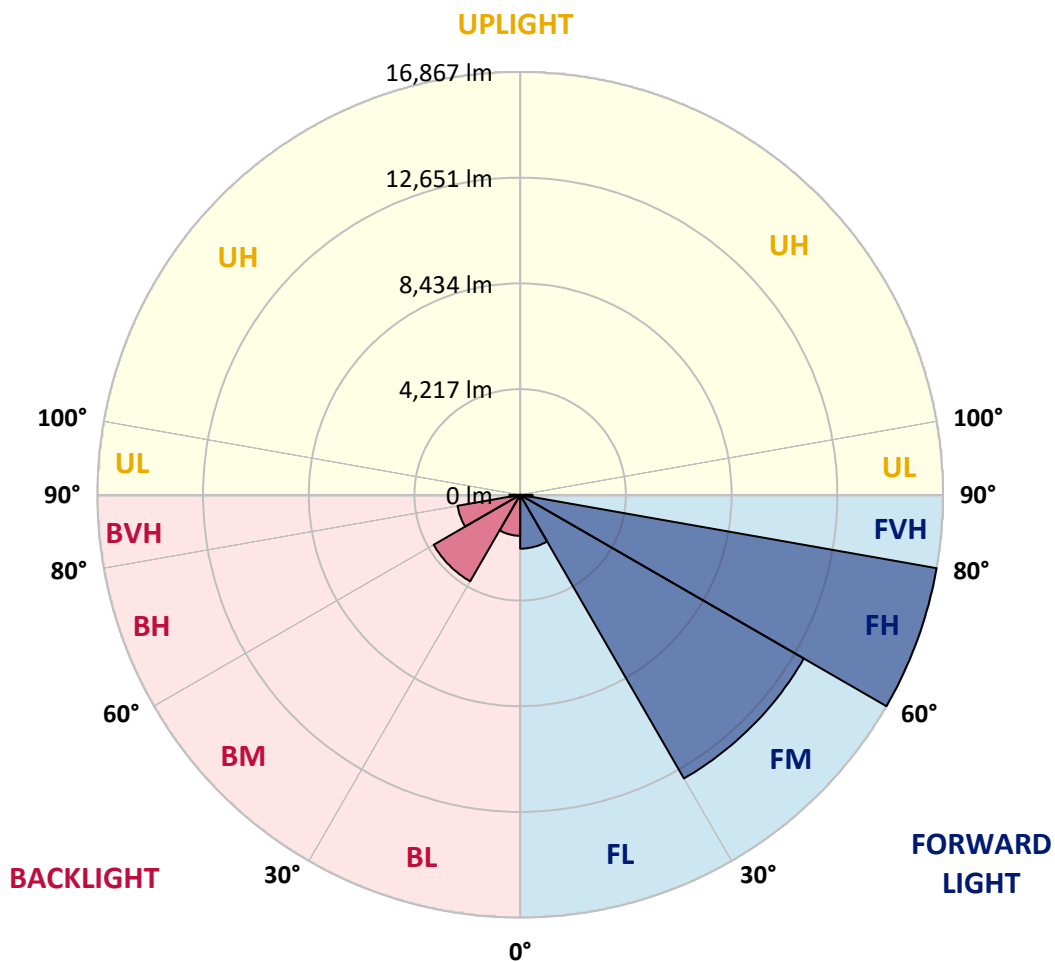
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2147.5	5.2			
FM	(30°-60°)	13064.5	31.7			
FH	(60°-80°)	16867.4	41.0			G5
FVH	(80°-90°)	491.7	1.2			G3/500
BL	(0°-30°)	1634.9	4.0	B3/2500		
BM	(30°-60°)	3985.5	9.7	B3/5000		
BH	(60°-80°)	2536.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	429.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5
2.5°	5055.9	5045.9	5041.8	5033.8	5023.9	4973.7	4963.8	4927.7	4877.6	4825.6	4771.5
5°	5388.3	5386.2	5364.1	5324.2	5260.1	5150.0	5123.9	5035.9	4917.7	4803.5	4689.4
7.5°	5680.6	5662.6	5620.5	5540.4	5428.3	5278.1	5242.1	5119.9	4957.7	4801.6	4647.4
10°	5894.9	5884.8	5792.7	5682.6	5536.4	5370.2	5328.1	5192.1	5013.8	4815.6	4623.3
12.5°	6016.9	5996.9	5890.8	5758.7	5584.6	5422.3	5380.3	5242.1	5041.8	4815.6	4589.4
15°	6009.0	5995.0	5888.7	5744.8	5568.5	5426.3	5388.3	5250.1	5035.9	4795.6	4545.2
17.5°	5848.8	5854.9	5764.8	5622.5	5478.4	5370.2	5336.2	5208.1	4995.8	4755.4	4493.2
20°	5568.5	5596.5	5536.4	5410.3	5330.3	5256.2	5234.1	5126.0	4933.8	4697.4	4437.2
22.5°	5288.1	5314.2	5290.2	5183.9	5172.0	5128.0	5115.9	5037.9	4879.7	4661.5	4403.1
25°	5081.9	5106.0	5102.0	5009.8	5045.9	5043.9	5033.8	4995.8	4867.6	4661.5	4409.2
27.5°	5025.8	5033.8	5025.8	4941.8	4991.8	5031.9	5023.9	5017.8	4903.7	4719.4	4485.1
30°	5218.1	5206.0	5144.0	4973.7	5019.8	5076.0	5067.9	5071.9	5011.9	4871.7	4655.3
32.5°	5985.0	5930.9	5734.7	5256.2	5134.0	5163.9	5167.9	5234.1	5244.0	5106.0	4919.7
35°	7132.4	7072.1	6818.0	6013.0	5488.4	5384.3	5384.3	5484.3	5544.3	5442.3	5330.3
37.5°	8347.7	8281.7	8145.4	7062.1	6233.2	5766.7	5756.7	5826.8	5912.9	5936.9	5964.9
40°	9729.4	9659.3	9697.3	8239.6	7272.5	6429.4	6287.2	6237.2	6469.6	6623.7	6848.0
42.5°	11241.0	11209.1	11223.1	9551.0	8455.8	7420.5	7218.4	6960.1	7240.3	7514.7	7985.3
45°	12640.7	12668.6	12654.8	10954.7	9773.4	8630.0	8415.9	7915.1	8189.5	8660.1	9427.0
47.5°	13866.1	13749.9	13930.1	12488.4	11249.0	9983.7	9719.3	9048.4	9326.8	9907.4	11205.0
50°	15353.8	15337.8	15073.5	14534.8	13033.1	11343.2	10996.8	10219.8	10652.5	11459.3	13445.7
52.5°	16917.6	16627.3	16385.1	16126.7	14925.2	12736.8	12312.3	11387.3	12210.2	13225.3	16176.8
55°	17238.0	17108.0	17408.3	17842.8	16749.4	14184.4	13689.9	12851.0	13964.2	15243.7	19326.5
57.5°	17922.9	17920.7	18541.6	19316.4	18627.7	15720.2	15221.7	14618.9	15936.6	17556.4	22670.3
60°	18385.3	18515.4	19668.7	21172.6	20471.7	17494.3	17035.7	16659.3	18179.1	20141.3	25785.9
62.5°	18627.7	18803.9	20377.6	21925.4	23078.7	20447.7	19989.3	19446.6	21146.6	22976.7	27608.1
65°	17620.4	17966.9	20267.5	22576.3	25361.5	25235.2	25029.0	24076.0	24856.9	25217.3	26949.3
67.5°	14833.3	15187.6	17866.7	21969.5	26991.4	29852.7	29896.8	28268.9	27139.6	25409.5	22658.3
70°	10568.3	10846.6	13063.2	18419.3	25749.8	32870.2	33020.3	30201.0	26685.1	22534.2	15830.4
72.5°	5017.8	5188.0	7286.4	11987.9	20433.7	30116.9	30407.3	27734.2	22690.4	16683.4	8636.0
75°	1844.1	1896.2	2462.9	5099.9	11851.8	22209.8	22552.2	19881.1	15041.5	8305.6	3289.9
77.5°	1105.3	1139.3	1381.7	2152.5	4661.5	12694.8	13201.3	10812.5	6573.6	3091.5	1617.8
80°	772.9	796.9	991.2	1339.6	2202.6	4837.6	5288.1	4413.2	2619.1	1956.2	1177.4
82.5°	522.6	534.6	696.8	905.0	1463.7	1728.0	1864.2	1962.3	1766.1	1455.8	746.9
85°	342.4	354.4	472.6	596.7	931.1	893.0	913.0	1155.3	1289.4	989.2	414.5
87.5°	196.2	204.3	284.4	318.4	456.5	378.5	382.5	608.7	825.0	666.8	252.3
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°	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5
2.5°	4757.6	4731.6	4673.4	4637.4	4603.4	4595.3	4581.4	4579.3	4577.4	4577.4	4571.4
5°	4651.5	4607.3	4517.2	4467.2	4425.1	4421.2	4419.1	4429.2	4433.1	4437.2	4431.2
7.5°	4583.3	4523.2	4411.1	4339.1	4289.0	4277.0	4297.0	4343.0	4373.0	4385.0	4379.1
10°	4541.3	4467.2	4337.0	4259.0	4217.0	4210.9	4236.9	4290.9	4353.0	4377.1	4375.0
12.5°	4493.2	4409.2	4270.9	4188.8	4164.8	4176.8	4210.9	4260.9	4325.0	4363.1	4365.0
15°	4445.2	4347.1	4204.8	4132.8	4122.9	4138.9	4170.8	4208.9	4259.0	4297.0	4300.9
17.5°	4387.1	4284.9	4142.9	4068.8	4060.7	4068.8	4070.7	4090.7	4122.9	4158.9	4168.9
20°	4325.0	4220.9	4072.7	3998.6	3962.7	3930.5	3894.5	3898.6	3908.5	3944.5	3952.6
22.5°	4281.0	4176.8	4018.7	3916.5	3820.4	3724.4	3652.2	3642.3	3646.2	3676.3	3686.3
25°	4284.9	4174.9	4004.6	3828.4	3618.3	3464.0	3367.9	3351.8	3349.9	3371.9	3385.9
27.5°	4363.1	4252.9	4056.7	3738.3	3398.0	3169.7	3067.5	3055.6	3039.5	3045.6	3061.6
30°	4537.2	4435.1	4182.9	3646.2	3159.7	2881.4	2775.3	2763.1	2741.2	2731.1	2743.2
32.5°	4821.7	4737.5	4367.1	3558.1	2921.4	2635.1	2526.9	2500.9	2486.9	2474.9	2484.9
35°	5294.2	5258.0	4613.3	3462.0	2711.2	2444.8	2346.7	2306.7	2286.6	2308.6	2324.8
37.5°	6035.1	6055.0	4935.7	3311.8	2549.0	2318.6	2236.6	2190.5	2160.6	2178.5	2196.5
40°	7084.3	7098.2	5292.2	3099.6	2408.7	2244.7	2156.6	2114.5	2072.4	2040.4	2038.3
42.5°	8461.9	8319.7	5642.6	2869.4	2246.7	2198.5	2100.4	2048.3	1984.3	1896.2	1878.1
45°	10095.7	9597.1	5908.8	2605.1	2064.3	2142.5	2038.3	1966.3	1866.1	1770.1	1760.0
47.5°	11977.9	10968.8	6039.0	2330.7	1894.2	2060.4	1962.3	1848.2	1722.1	1673.9	1668.0
50°	14276.6	12596.7	6101.1	2064.3	1746.0	1952.2	1852.1	1718.0	1611.9	1601.9	1595.8
52.5°	16893.6	14554.9	6121.1	1846.1	1623.9	1812.2	1762.0	1632.0	1547.8	1555.9	1555.9
55°	19632.7	16577.2	5848.8	1687.9	1511.8	1668.0	1702.0	1597.8	1527.7	1559.7	1571.9
57.5°	22147.7	18369.4	4991.8	1565.8	1405.7	1557.8	1679.9	1629.9	1581.8	1712.0	1720.0
60°	24078.0	19428.5	3728.3	1455.8	1327.5	1519.8	1738.0	1752.1	1764.0	2074.4	2116.4
62.5°	24482.4	19076.1	2563.0	1369.6	1291.6	1551.8	1844.1	1846.1	1832.2	2048.3	2074.4
65°	22626.2	16847.5	1864.2	1321.5	1261.5	1609.9	1934.2	1892.2	1800.2	1964.2	1916.3
67.5°	17968.8	12692.7	1551.8	1285.5	1217.5	1605.9	2030.3	1934.2	1782.1	1924.2	1846.1
70°	11663.6	7674.8	1381.7	1255.4	1165.3	1529.8	2086.5	1930.3	1730.0	1790.1	1697.9
72.5°	5690.7	3432.0	1267.5	1211.5	1111.4	1423.6	2084.3	1894.2	1676.0	1671.9	1621.9
75°	2226.5	1571.9	1163.3	1145.2	1019.1	1303.5	2028.4	1842.2	1611.9	1547.8	1529.8
77.5°	1303.5	1121.4	1031.3	1047.2	909.1	1183.3	1946.3	1752.1	1523.7	1447.7	1427.6
80°	949.1	838.9	879.0	905.0	776.9	1063.2	1836.1	1641.9	1425.7	1463.7	1435.8
82.5°	608.7	540.6	712.9	738.9	646.8	941.1	1716.0	1525.9	1287.5	1169.4	1141.3
85°	310.4	342.4	530.5	562.7	498.6	772.9	1569.8	1371.6	1131.3	973.1	989.2
87.5°	174.2	234.3	338.4	378.5	352.4	594.7	1273.4	1131.3	923.1	750.9	660.8
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)