

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: P651091

Luminaire Tested: **GALN-SA8C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28511.6 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

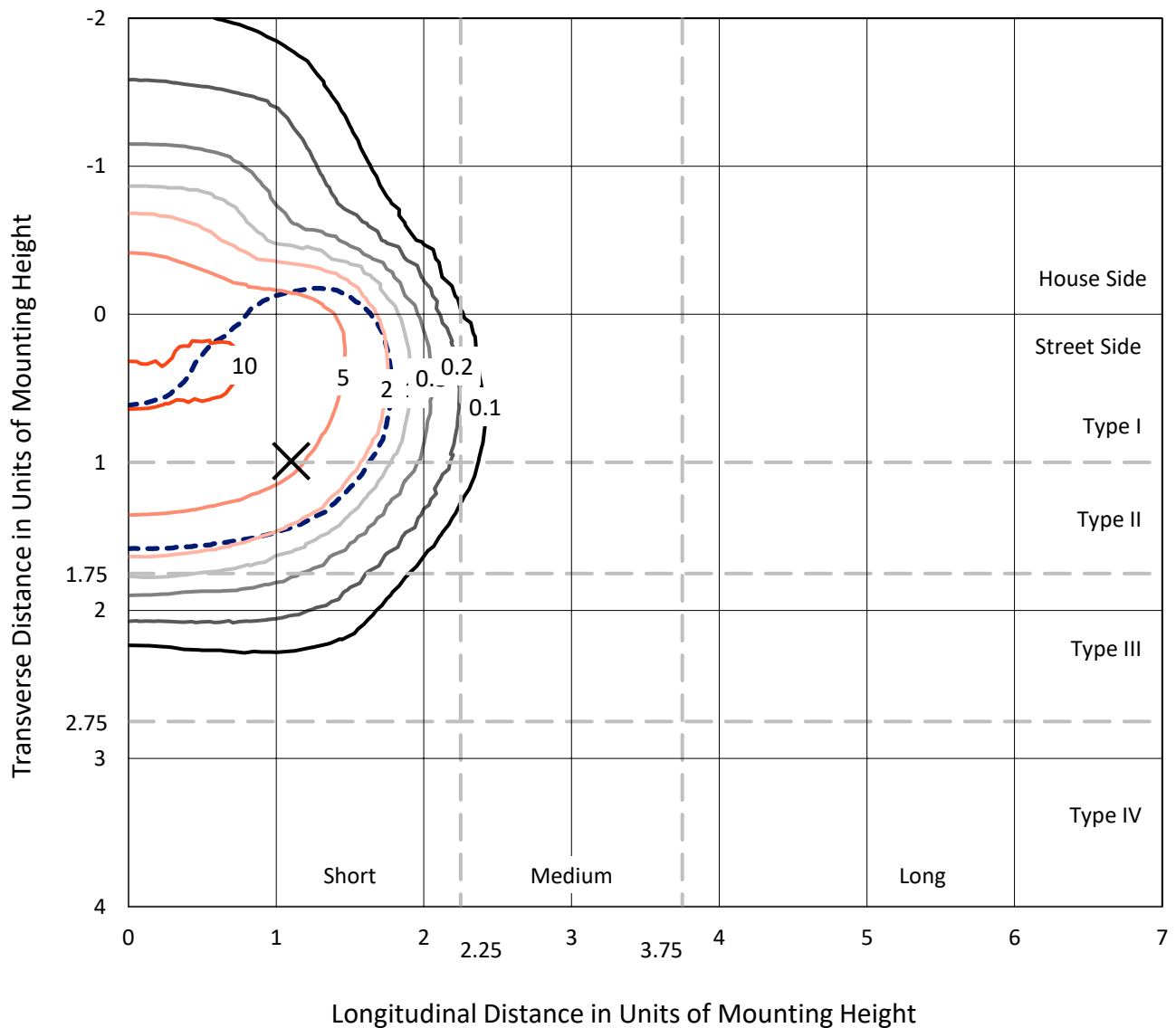
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

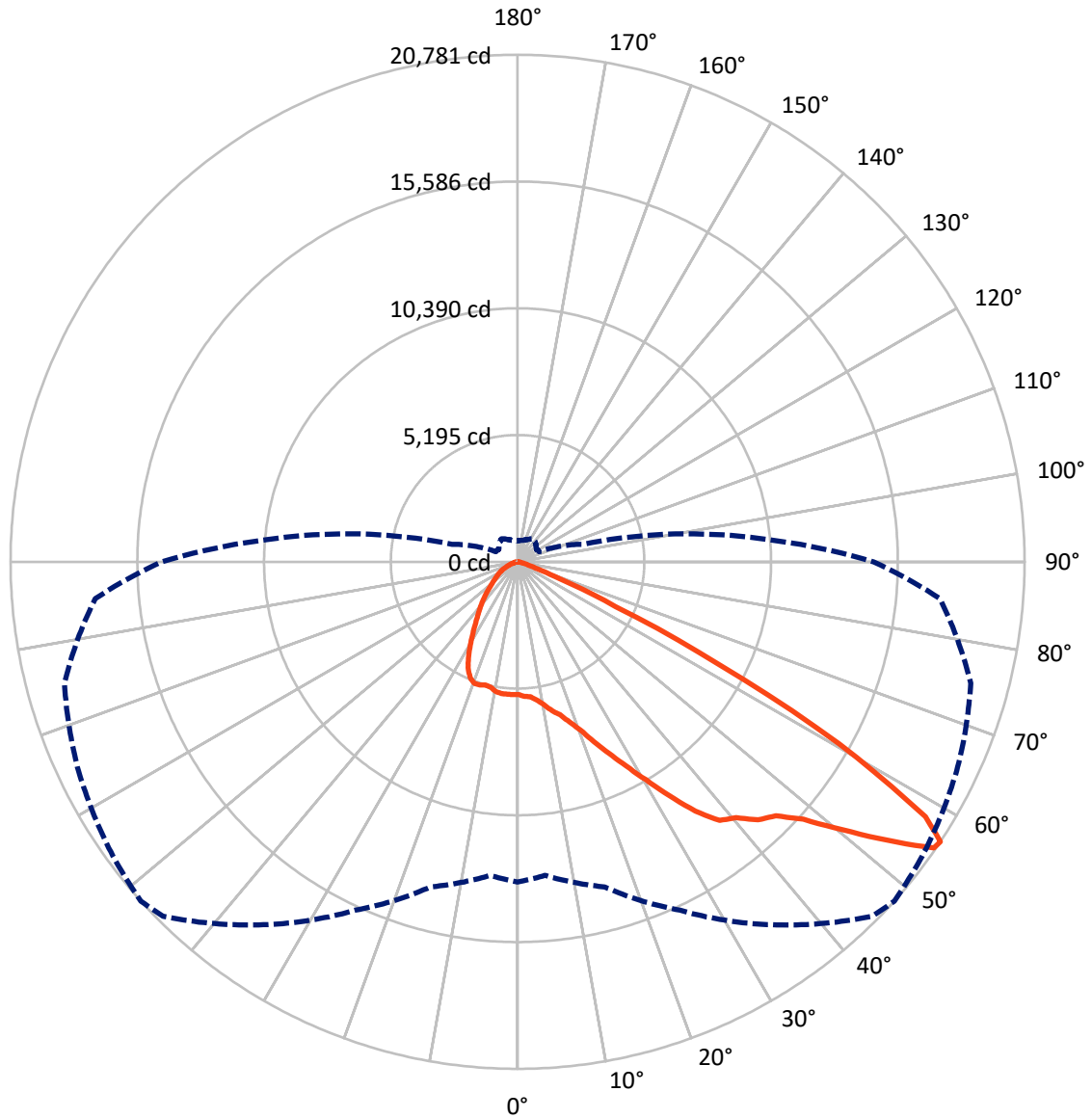
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6200.7	0.0	6200.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	22310.9	0.0	22310.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	28511.6	0.0	28511.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	1.9
10°-20°	1695.3	5.9
20°-30°	3074.9	10.8
30°-40°	4830.1	16.9
40°-50°	7046.3	24.7
50°-60°	8489.4	29.8
60°-70°	2485.6	8.7
70°-80°	315.3	1.1
80°-90°	44.2	0.2
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°	28511.6	100.0
0°-180°	28511.6	100.0

Coefficient of Utilization



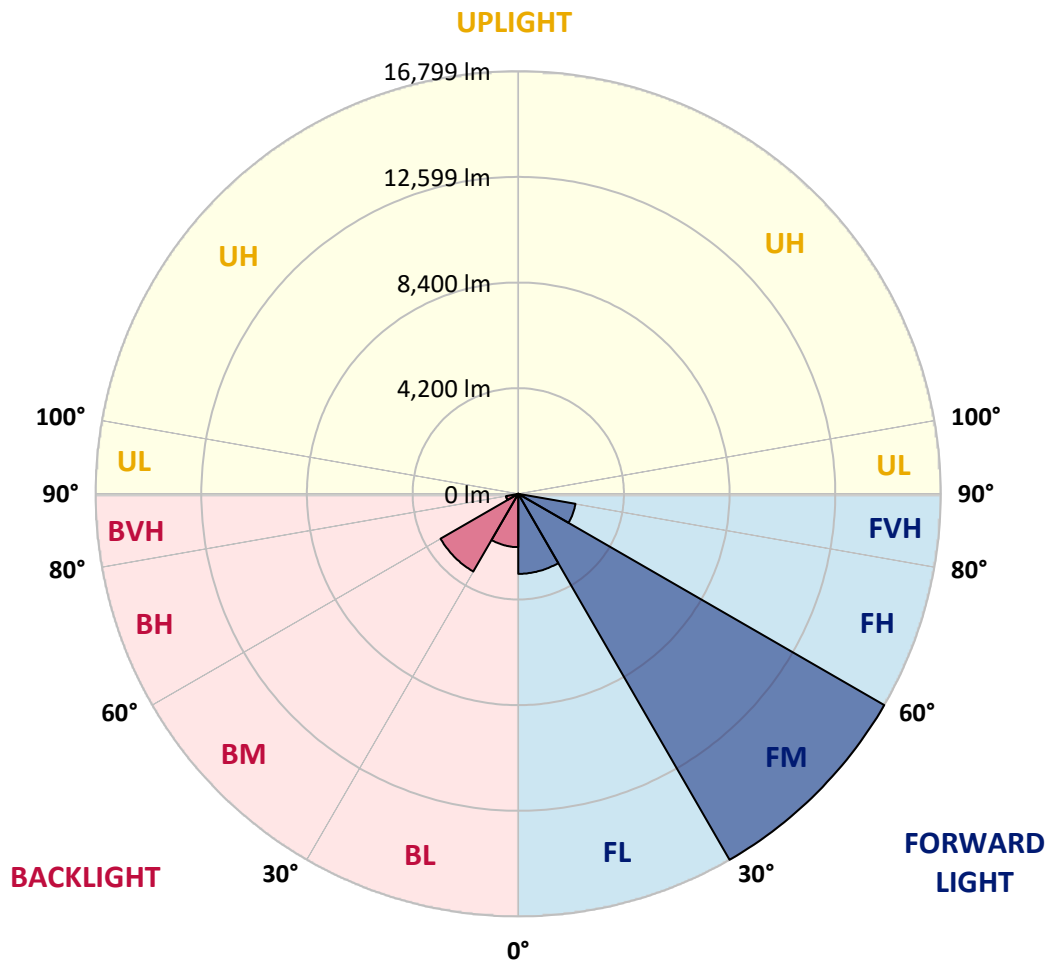
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.3	11.2			
FM (30°-60°)	16799.1	58.9			
FH (60°-80°)	2308.2	8.1			G2/5000
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	2119.4	7.4	B3/2500		
BM (30°-60°)	3566.6	12.5	B3/5000		
BH (60°-80°)	492.7	1.7	B1/500		G1/500
BVH (80°-90°)	22.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7
2.5°	5544.4	5518.4	5518.4	5476.8	5523.6	5502.8	5518.4	5466.5	5518.4	5440.5	5502.8
5°	5570.3	5575.5	5554.7	5580.7	5580.7	5611.8	5559.9	5606.7	5632.6	5575.5	5549.6
7.5°	5705.3	5715.7	5710.5	5689.7	5731.2	5726.0	5720.9	5684.5	5694.9	5674.1	5643.0
10°	5970.1	5964.9	5990.8	5938.9	5907.8	5944.1	5954.4	5897.3	5855.9	5840.2	5741.6
12.5°	6354.2	6291.9	6255.6	6203.6	6219.2	6167.3	6260.7	6162.1	6141.4	6047.9	5949.3
15°	6665.7	6655.3	6660.5	6577.5	6484.0	6504.8	6504.8	6452.8	6421.7	6307.5	6167.3
17.5°	7304.3	7086.2	7132.9	7029.1	6951.2	6946.0	6899.3	6909.7	6826.6	6587.8	6374.9
20°	7802.6	7709.1	7636.4	7460.0	7340.6	7376.9	7356.1	7304.3	7278.3	6966.8	6665.7
22.5°	8249.0	8280.2	8160.8	8114.1	7948.0	7963.5	8005.1	7958.3	7761.1	7439.2	6992.7
25°	8877.2	8840.8	8680.0	8622.9	8467.1	8524.2	8685.1	8648.8	8524.2	7942.7	7247.1
27.5°	9619.6	9495.0	9526.1	9266.6	9116.0	9276.9	9469.0	9650.7	9297.7	8534.6	7548.2
30°	10143.9	10014.1	10003.7	9993.4	9957.0	10143.9	10367.1	10533.3	10247.8	9126.4	8046.6
32.5°	10403.4	10434.6	10522.8	10491.7	10808.4	11192.5	11426.2	11664.9	11306.7	10092.0	8705.9
35°	11093.9	10896.7	11093.9	11114.7	11441.7	12256.7	12552.7	13123.7	13035.5	11457.3	9510.5
37.5°	11498.8	11483.3	11509.3	11706.5	12023.2	13030.3	13450.8	13892.1	13726.0	12277.5	10512.5
40°	12168.5	12210.1	12204.8	12355.4	12703.2	13611.8	13783.1	14141.2	14156.8	13414.5	11986.9
42.5°	13243.1	13077.0	12968.0	13123.7	13611.8	14115.3	14457.9	14385.2	14899.2	14795.4	13881.6
45°	14208.7	14307.3	14146.5	14406.0	14582.5	14852.5	14842.1	14997.8	15651.9	16145.1	15309.3
47.5°	15112.0	15174.3	15252.2	15428.6	15812.8	15854.4	15766.1	15698.6	16601.9	17110.6	16415.1
50°	15651.9	15709.0	16072.4	16389.1	17105.5	17199.0	17250.8	17079.5	17692.1	17749.2	17458.5
52.5°	15506.5	15568.8	16077.6	17121.1	18263.2	19119.7	18964.0	18673.3	18637.0	18860.2	18424.1
55°	14219.1	14162.0	14862.8	16487.7	18626.6	20682.3	20703.1	20396.8	19810.2	19659.6	18278.7
56°	13123.7	12900.5	13793.4	15755.7	18159.4	20547.4	20780.9	20453.9	19903.6	19228.8	17380.6
57.5°	10751.3	10964.1	11851.9	13476.8	16544.8	19576.5	19711.5	19633.6	19218.4	18086.6	15293.8
60°	5928.5	6302.3	7086.2	9074.5	11779.1	15023.8	15132.8	15766.1	15844.0	13850.5	10522.8
62.5°	2517.8	2476.2	3291.3	4755.3	6707.2	9069.3	9271.8	9920.7	10040.0	7984.3	5279.6
65°	1022.7	1079.8	1489.9	2393.2	3545.7	4132.3	4417.9	4630.7	5025.2	3296.5	1946.7
67.5°	674.9	669.7	877.3	1365.4	1910.4	1843.0	1843.0	1946.7	1801.4	1344.6	841.0
70°	482.8	498.4	628.1	944.9	1188.8	882.5	846.2	809.9	918.9	887.8	680.0
72.5°	316.6	337.4	420.5	565.8	617.8	482.8	482.8	581.5	757.9	716.4	555.5
75°	207.6	212.9	259.5	327.1	306.3	249.2	275.2	389.4	550.3	529.5	394.5
77.5°	140.2	145.3	176.5	212.9	171.3	140.2	150.5	197.3	270.0	270.0	207.6
80°	51.9	57.1	72.7	67.4	77.9	98.6	109.0	135.0	161.0	161.0	140.2
82.5°	0.0	5.2	15.6	36.3	57.1	77.9	88.2	103.9	119.4	135.0	129.8
85°	0.0	5.2	15.6	26.0	41.5	46.8	51.9	36.3	31.1	31.1	26.0
87.5°	0.0	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.3	5.2	5.2
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°	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7	5445.7
2.5°	5445.7	5440.5	5440.5	5425.0	5456.1	5440.5	5450.9	5445.7	5378.2	5430.2	5393.8
5°	5502.8	5539.2	5482.1	5471.7	5430.2	5445.7	5445.7	5393.8	5440.5	5435.4	5425.0
7.5°	5648.2	5585.9	5523.6	5461.3	5450.9	5435.4	5378.2	5357.5	5393.8	5352.3	5414.6
10°	5710.5	5720.9	5627.4	5544.4	5466.5	5357.5	5279.6	5232.9	5175.8	5238.1	5274.4
12.5°	5996.0	5892.2	5731.2	5601.5	5336.7	5227.7	5149.8	5129.1	5227.7	5248.4	5212.1
15°	6094.6	6079.1	5871.4	5580.7	5305.5	5175.8	5191.3	5149.8	5160.2	5108.3	5118.7
17.5°	6297.1	6120.6	5876.6	5513.2	5300.4	5269.2	5175.8	5009.7	4916.2	4874.7	4911.0
20°	6520.4	6349.0	5996.0	5539.2	5347.1	5264.0	4957.8	4755.3	4563.2	4459.4	4464.5
22.5°	6717.6	6504.8	5944.1	5549.6	5388.6	5046.0	4677.4	4277.7	4038.9	3877.9	3883.1
25°	6956.4	6655.3	5964.9	5570.3	5279.6	4698.2	4168.7	3779.3	3493.8	3384.8	3421.1
27.5°	7091.4	6748.8	6079.1	5617.0	4994.1	4205.0	3634.0	3270.6	3104.5	3052.5	3047.4
30°	7496.3	6956.4	6219.2	5523.6	4516.5	3675.5	3145.9	2922.7	2761.8	2715.1	2725.4
32.5°	8098.5	7335.4	6400.9	5279.6	4028.5	3203.0	2829.3	2663.2	2512.6	2424.4	2414.0
35°	8602.1	7984.3	6593.0	4900.6	3462.6	2839.6	2606.1	2398.4	2169.9	2071.4	2045.4
37.5°	9562.4	8716.3	6551.5	4329.6	2922.7	2569.7	2367.2	2112.8	1915.6	1780.6	1765.1
40°	10839.6	9572.9	6349.0	3634.0	2523.0	2330.9	2112.8	1868.9	1624.9	1510.7	1500.3
42.5°	12391.7	10621.5	5980.4	2927.9	2123.3	2092.1	1894.9	1614.5	1396.5	1313.4	1318.6
45°	13653.2	11519.6	5606.7	2351.7	1827.3	1858.5	1687.2	1422.5	1271.8	1204.4	1204.4
47.5°	14774.6	12127.0	5201.8	1941.5	1552.2	1624.9	1474.4	1318.6	1188.8	1136.9	1126.5
50°	15854.4	12744.8	4796.8	1573.0	1323.8	1396.5	1380.9	1256.3	1152.5	1090.2	1095.4
52.5°	16529.3	12843.4	4282.9	1287.5	1157.6	1240.7	1292.6	1178.4	1064.2	1027.9	1017.5
55°	15703.8	11571.5	3322.5	1059.1	981.2	1090.2	1188.8	1059.1	970.8	908.4	903.3
56°	14592.9	10346.3	2777.4	976.0	929.2	1048.6	1152.5	1012.3	913.7	877.3	851.3
57.5°	12355.4	8467.1	2050.6	867.0	861.8	976.0	1095.4	965.6	851.3	820.2	820.2
60°	7704.0	4765.7	1240.7	726.8	747.6	867.0	986.3	861.8	757.9	757.9	773.6
62.5°	3509.3	1983.1	752.8	617.8	643.7	747.6	877.3	778.7	721.6	778.7	789.1
65°	1194.1	856.6	545.1	493.2	508.7	617.8	752.8	789.1	783.9	820.2	841.0
67.5°	669.7	550.3	456.8	410.2	399.7	456.8	617.8	789.1	757.9	742.4	752.8
70°	565.8	467.3	404.9	363.4	347.8	368.6	477.6	597.0	534.7	519.1	508.7
72.5°	456.8	389.4	353.1	327.1	280.3	238.8	218.1	228.4	254.4	270.0	295.9
75°	321.9	295.9	295.9	264.7	202.4	150.5	119.4	98.6	67.4	46.8	51.9
77.5°	181.7	181.7	186.9	161.0	129.8	98.6	72.7	51.9	26.0	10.3	5.2
80°	124.6	135.0	145.3	129.8	109.0	88.2	62.3	36.3	15.6	0.0	0.0
82.5°	124.6	140.2	150.5	129.8	109.0	83.1	62.3	36.3	15.6	5.2	0.0
85°	26.0	31.1	36.3	41.5	62.3	62.3	46.8	31.1	15.6	5.2	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	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)