

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: P382664

Luminaire Tested: **GLEON-SA0C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52930.5 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

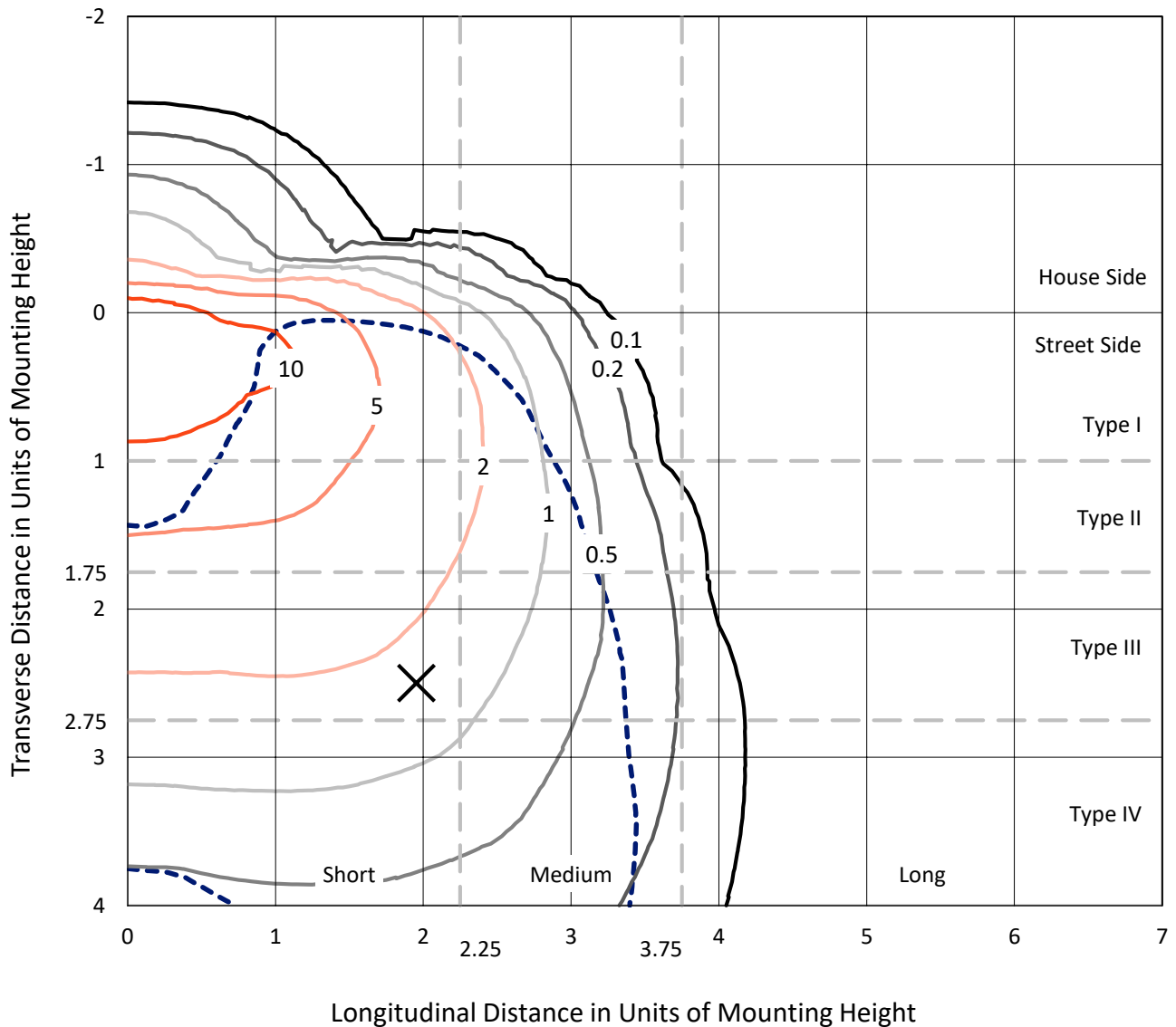
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

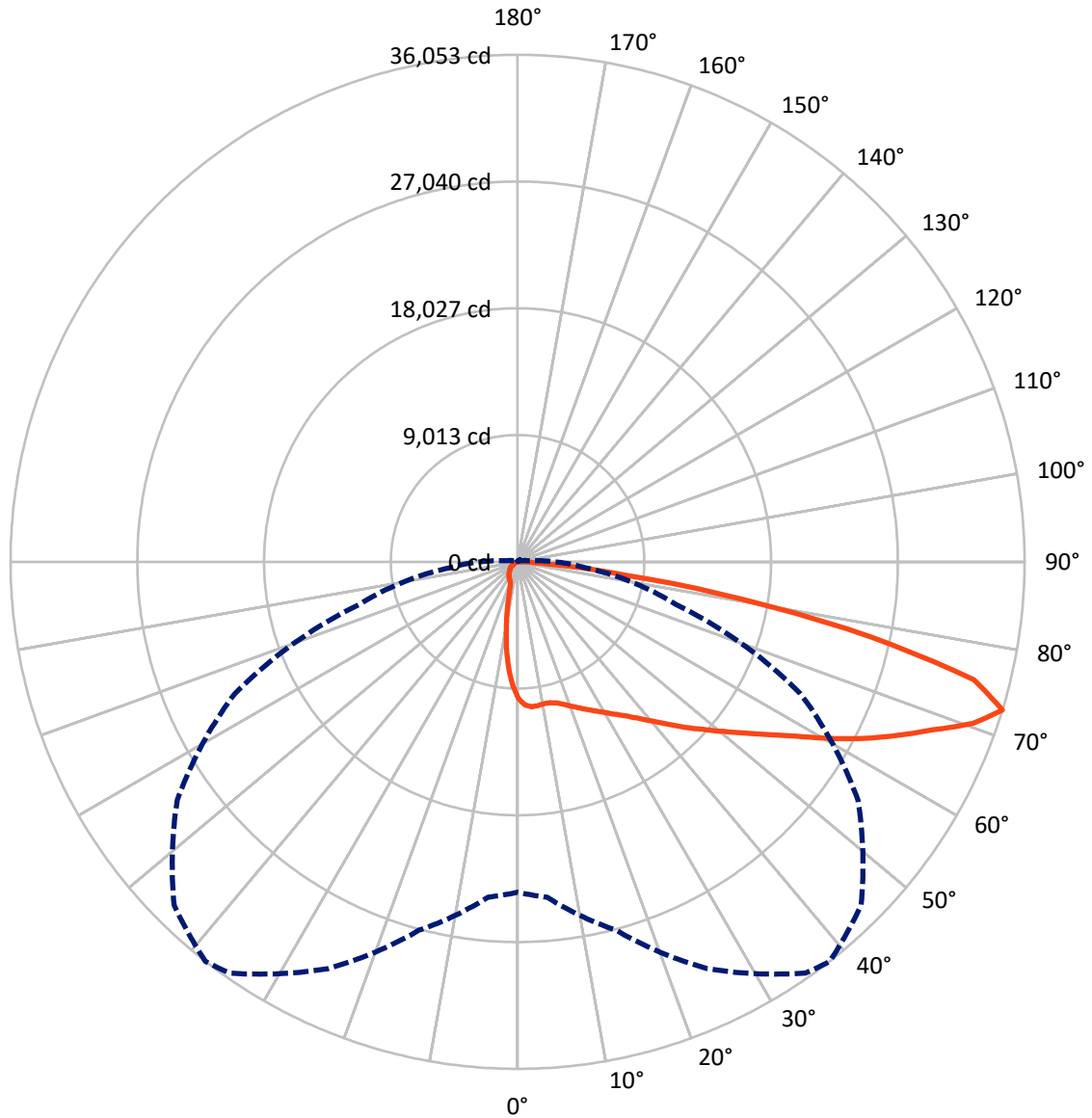
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4454.3	0.0	4454.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	48476.2	0.0	48476.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	52930.5	0.0	52930.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.5	1.6
10°-20°	2028.3	3.8
20°-30°	3226.0	6.1
30°-40°	4850.0	9.2
40°-50°	7398.9	14.0
50°-60°	10457.2	19.8
60°-70°	13116.8	24.8
70°-80°	9807.7	18.5
80°-90°	1216.1	2.3
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°	52930.5	100.0
0°-180°	52930.5	100.0

Coefficient of Utilization

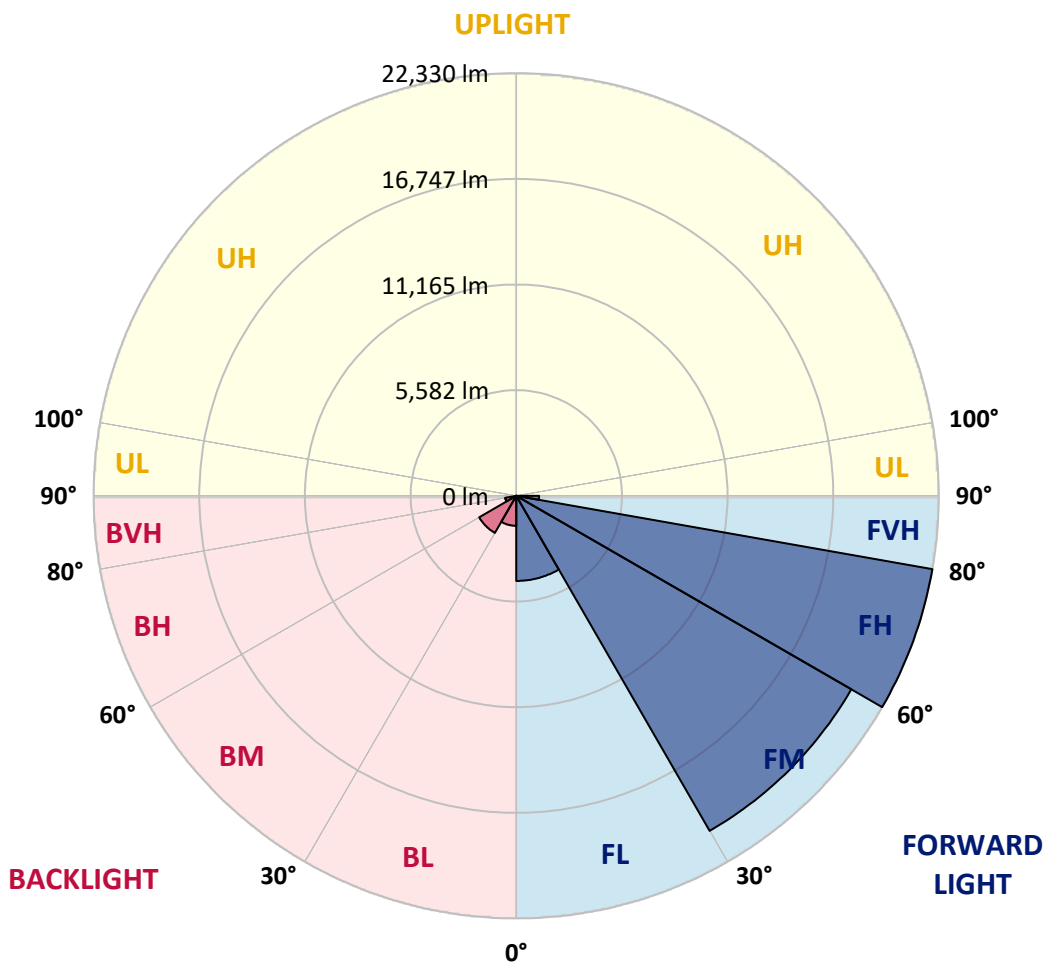


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4497.8	8.5			
FM (30°-60°)	20444.1	38.6			
FH (60°-80°)	22329.5	42.2			G5
FVH (80°-90°)	1204.8	2.3			G5
BL (0°-30°)	1586.0	3.0	B3/2500		
BM (30°-60°)	2262.0	4.3	B2/2500		
BH (60°-80°)	595.0	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.0			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7
2.5°	10331.7	10333.8	10309.7	10270.1	10219.5	10193.2	10149.2	10078.9	10004.2	9870.0	9725.0
5°	10542.7	10542.7	10512.0	10459.1	10377.8	10353.7	10270.1	10158.0	10004.2	9786.5	9542.5
7.5°	10520.7	10525.1	10483.4	10428.4	10347.1	10325.1	10223.9	10098.6	9907.4	9643.7	9331.5
10°	10406.4	10417.4	10384.4	10358.1	10283.4	10259.1	10164.6	10039.3	9848.0	9566.7	9208.3
12.5°	10289.9	10300.9	10311.9	10336.1	10289.9	10281.1	10206.4	10100.9	9918.4	9626.1	9221.6
15°	10215.2	10237.1	10316.2	10410.8	10421.8	10413.0	10364.7	10265.7	10081.1	9777.7	9316.1
17.5°	10215.2	10250.4	10415.2	10595.4	10659.2	10665.8	10624.0	10485.5	10265.7	9940.4	9404.0
20°	10300.9	10349.2	10606.4	10861.5	10966.9	10966.9	10885.6	10692.2	10435.0	10087.6	9463.4
22.5°	10520.7	10584.4	10907.6	11202.1	11314.3	11290.1	11180.2	10898.8	10610.9	10254.8	9538.1
25°	10953.8	11002.1	11338.4	11635.2	11703.4	11648.4	11509.9	11149.4	10835.0	10481.1	9674.4
27.5°	11512.2	11518.7	11866.1	12116.6	12074.9	12037.5	11863.8	11463.7	11158.2	10804.3	9909.6
30°	12125.4	12125.4	12430.9	12622.2	12494.8	12463.9	12290.3	11844.1	11571.5	11244.0	10243.8
32.5°	12719.0	12745.3	12993.7	13114.6	12971.7	12941.0	12771.7	12325.5	12121.0	11914.4	10764.7
35°	13292.7	13312.5	13547.7	13613.6	13477.4	13486.1	13365.2	12987.2	12910.2	12883.8	11549.5
37.5°	13848.9	13853.2	14092.8	14134.6	14066.5	14141.2	14152.2	13818.0	13960.9	14174.1	12655.2
40°	14356.6	14361.0	14598.5	14706.2	14822.7	14919.4	15005.1	14827.1	15299.6	15794.3	13971.9
42.5°	14763.3	14809.5	15110.6	15315.0	15622.8	15807.4	16040.5	16031.7	16893.3	17636.3	15563.5
45°	15121.6	15200.7	15620.6	15978.9	16506.5	16801.0	17166.0	17451.7	18687.1	19687.3	17174.8
47.5°	15594.2	15669.0	16148.2	16735.1	17438.6	17825.4	18429.9	19047.6	20658.9	21700.9	18748.7
50°	16260.3	16227.3	16699.9	17541.9	18445.3	18953.1	19814.9	20740.3	22615.4	23455.1	19674.1
52.5°	16970.3	16957.1	17306.7	18418.9	19632.4	20225.9	21364.6	22490.1	24486.1	24664.1	20098.4
55°	17849.6	17755.1	18049.7	19419.1	21041.4	21678.9	23019.8	24222.3	25976.5	25345.5	20311.7
57.5°	18770.7	18614.6	18896.0	20533.6	22630.7	23384.7	24853.1	25910.5	26967.8	25811.6	20309.4
60°	19722.5	19537.8	19872.0	21927.3	24604.8	25477.5	26840.4	27051.4	27893.3	26046.8	20159.9
62.5°	20518.3	20408.3	20905.1	23417.7	26809.6	27666.9	28341.8	28089.0	28673.7	26229.2	19810.4
65°	21360.2	21366.8	22169.2	25156.5	29152.9	29731.0	29788.2	29434.3	29326.5	26191.9	18627.8
67.5°	22498.8	22604.4	23943.1	27517.5	31432.5	31878.7	31874.3	30891.7	29803.6	24705.9	16005.3
70°	23703.5	23951.9	25987.5	30219.0	33920.8	34373.6	34140.7	31819.3	28062.6	19977.5	11327.4
72.5°	23501.3	23932.1	27124.0	31922.6	35708.0	36053.1	34538.5	29539.7	22180.1	11611.0	4822.9
75°	18131.0	18630.0	24870.7	30234.4	33832.9	33523.0	29676.0	22986.9	12121.0	3240.2	1085.9
77.5°	9577.7	9843.7	16429.5	23033.0	26381.0	25732.4	20905.1	12752.0	3695.3	802.3	488.0
80°	5016.4	5077.9	7159.6	13068.5	16282.2	16286.7	12389.2	5601.1	1523.4	411.1	327.5
82.5°	2686.2	2739.0	3783.1	6038.6	8531.3	7733.3	4743.8	3081.9	885.9	233.0	314.3
85°	646.3	657.3	2145.4	2758.8	3354.5	2396.0	1409.1	2587.3	239.6	136.3	255.0
87.5°	248.4	252.8	795.7	1193.6	855.1	554.0	659.4	965.0	30.7	52.7	39.6
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°	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7	9733.7
2.5°	9637.0	9579.8	9439.2	9261.2	9102.9	8988.6	8817.1	8704.9	8630.2	8628.1	8599.5
5°	9393.0	9276.5	8973.1	8612.6	8285.1	7990.5	7643.3	7368.4	7164.1	7131.1	7060.7
7.5°	9131.4	8940.2	8474.2	7911.4	7361.8	6803.6	6155.0	5752.8	5407.6	5242.7	5225.1
10°	8971.0	8702.8	8041.1	7227.8	6366.1	5458.2	4609.7	4022.8	3598.5	3477.6	3387.5
12.5°	8938.0	8584.1	7707.0	6585.9	5354.9	4154.6	3216.0	2591.8	2253.2	2145.4	2116.8
15°	8971.0	8529.2	7425.6	5950.6	4330.5	2947.8	2158.7	1795.9	1668.5	1637.7	1635.5
17.5°	8990.7	8463.2	7106.9	5245.0	3336.9	2105.9	1653.0	1547.6	1527.7	1525.6	1530.0
20°	8988.6	8362.0	6726.6	4458.0	2481.8	1655.3	1494.8	1472.8	1468.4	1470.6	1468.4
22.5°	8973.1	8243.4	6308.9	3646.8	1875.1	1479.4	1426.7	1413.4	1411.3	1411.3	1411.3
25°	9001.7	8148.8	5849.5	2870.8	1545.3	1398.1	1365.1	1354.1	1352.0	1352.0	1347.5
27.5°	9105.0	8096.1	5346.1	2209.3	1395.8	1325.5	1299.1	1297.0	1290.4	1288.1	1292.5
30°	9272.2	8096.1	4794.3	1719.0	1305.8	1250.8	1231.0	1226.6	1224.4	1222.2	1224.4
32.5°	9566.7	8157.7	4192.1	1428.8	1220.0	1167.2	1154.1	1160.7	1154.1	1154.1	1154.1
35°	10098.6	8342.3	3561.1	1246.4	1129.9	1085.9	1072.8	1081.5	1077.1	1077.1	1074.9
37.5°	10874.6	8685.2	2925.8	1136.5	1050.8	1004.6	987.0	1000.2	995.8	995.8	993.6
40°	11819.8	9184.2	2321.3	1052.9	973.8	925.5	910.0	916.6	905.7	905.7	910.0
42.5°	12987.2	9817.3	1793.8	971.6	896.9	850.7	841.9	835.3	815.6	804.6	806.7
45°	14284.1	10476.7	1398.1	892.5	824.3	787.0	773.7	756.2	723.3	701.3	703.4
47.5°	15442.5	10984.5	1136.5	815.6	758.4	729.8	710.0	677.0	628.7	602.3	604.5
50°	16051.5	11061.5	967.2	738.6	696.8	668.3	639.7	589.1	532.0	503.4	501.2
52.5°	16207.5	10701.0	841.9	668.3	635.3	602.3	565.0	496.8	433.1	402.2	397.9
55°	16264.7	10151.4	729.8	602.3	569.4	532.0	483.6	406.7	347.3	316.5	314.3
57.5°	16075.6	9331.5	641.8	543.0	503.4	457.2	397.9	325.3	268.2	244.0	244.0
60°	15655.8	8221.4	573.7	479.2	435.2	382.5	320.9	252.8	200.0	180.3	180.3
62.5°	14818.2	6783.7	510.0	413.2	371.5	316.5	259.4	191.2	140.7	129.7	131.9
65°	13237.8	5146.1	446.2	353.9	316.5	261.6	202.2	136.3	94.6	94.6	98.9
67.5°	10795.5	3574.3	380.3	301.2	272.6	213.2	153.9	94.6	66.0	74.7	83.6
70°	7146.5	2004.8	325.3	248.4	233.0	169.3	114.3	63.7	52.7	70.3	85.7
72.5°	2697.2	780.4	272.6	200.0	202.2	129.7	81.3	48.3	48.3	76.9	101.1
75°	751.8	382.5	195.6	147.3	158.3	94.6	59.3	41.7	46.2	87.9	118.7
77.5°	441.8	281.3	127.5	85.7	107.7	66.0	39.6	33.0	39.6	74.7	114.3
80°	356.1	149.5	74.7	44.0	59.3	37.4	26.4	19.7	11.0	28.6	59.3
82.5°	356.1	90.2	35.2	30.7	30.7	19.7	13.2	8.8	2.2	0.0	15.4
85°	239.6	37.4	22.0	19.7	15.4	6.6	4.4	2.2	0.0	0.0	0.0
87.5°	39.6	15.4	8.8	4.4	2.2	0.0	0.0	0.0	0.0	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)