

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: P383319

Luminaire Tested: **GLEON-SA6B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31845.9 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

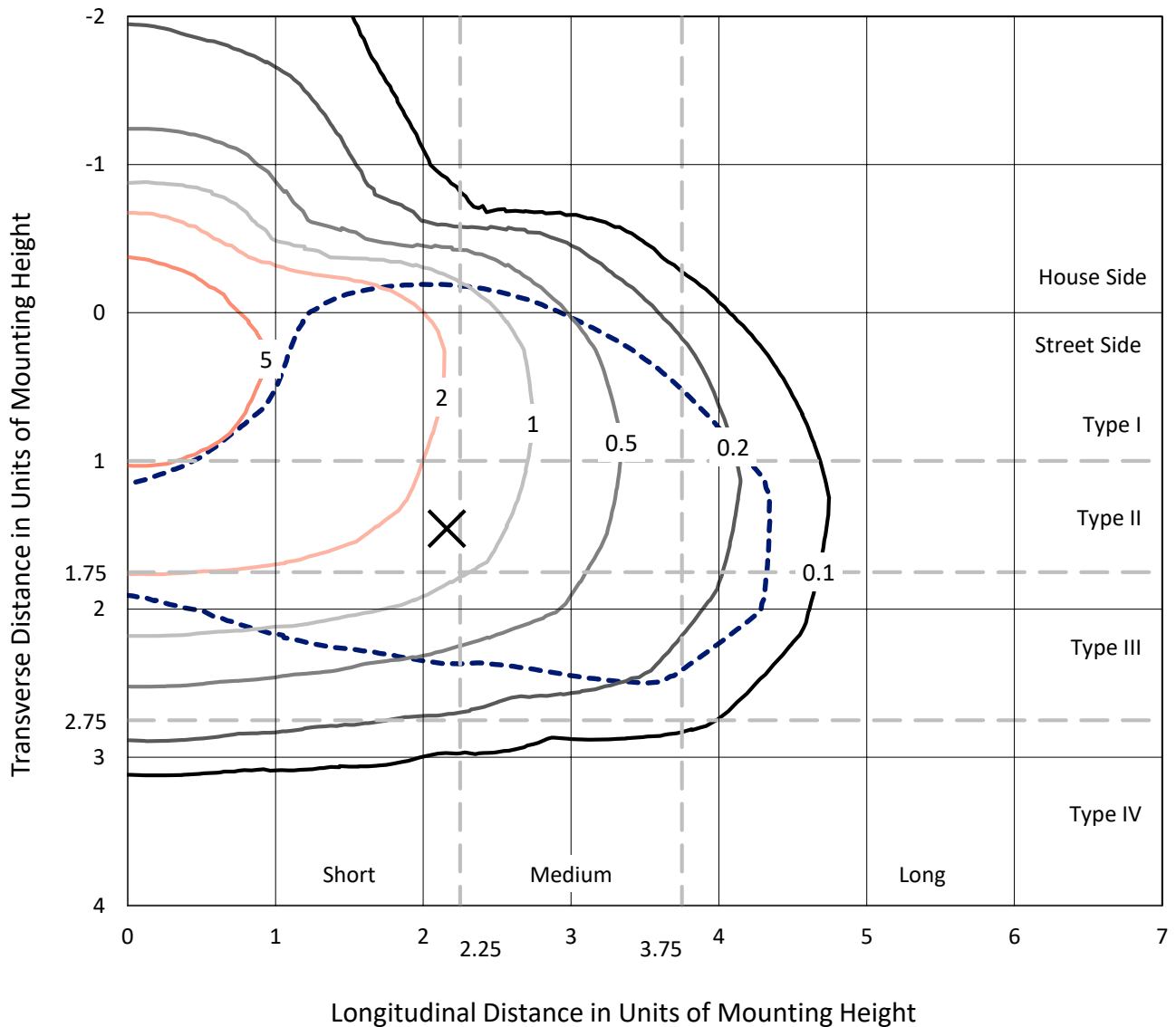
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

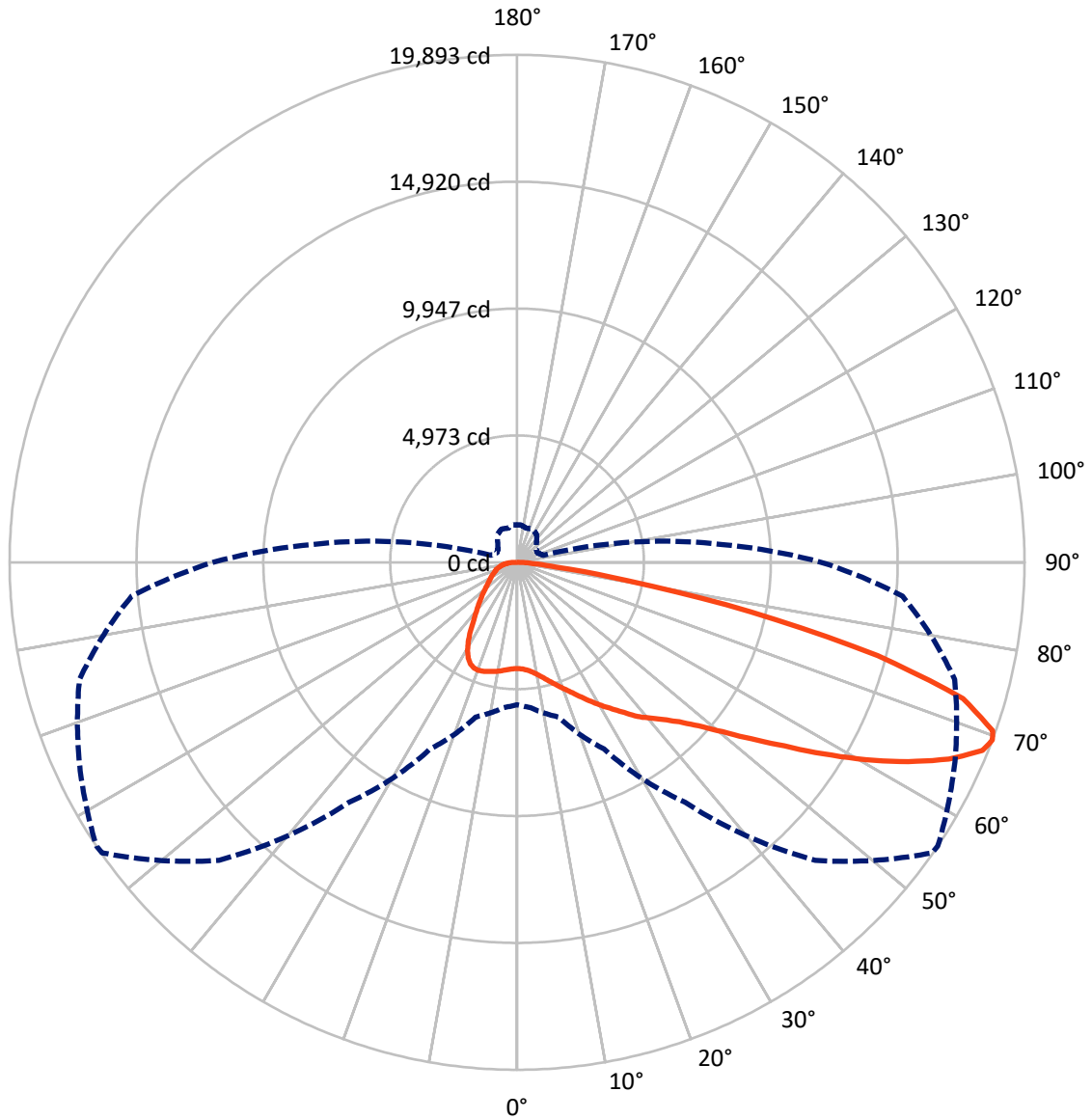
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7092.0	0.0	7092.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24753.9	0.0	24753.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	31845.9	0.0	31845.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.9	1.3
10°-20°	1314.9	4.1
20°-30°	2295.3	7.2
30°-40°	3297.1	10.4
40°-50°	4563.0	14.3
50°-60°	6685.4	21.0
60°-70°	8150.8	25.6
70°-80°	4506.3	14.2
80°-90°	624.1	2.0
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°	31845.9	100.0
0°-180°	31845.9	100.0



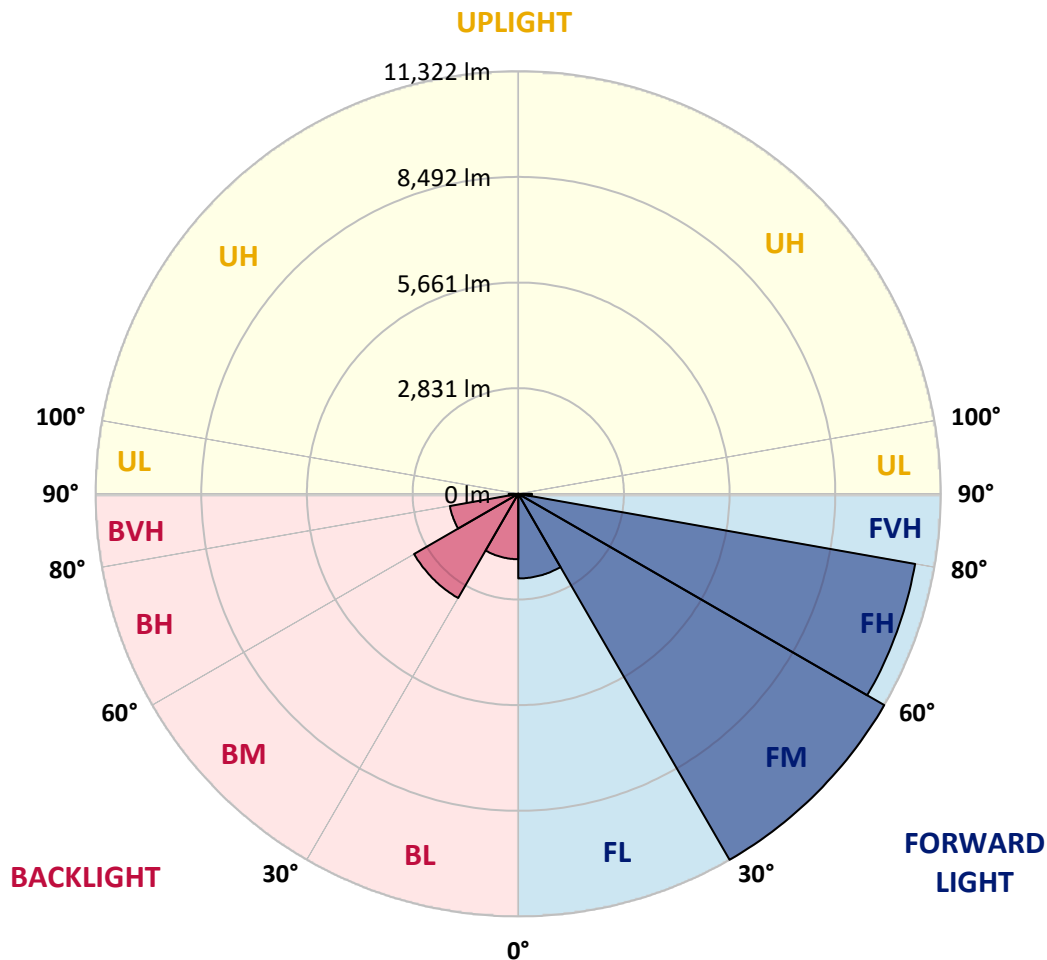
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.5	7.1			
FM (30°-60°)	11322.4	35.6			
FH (60°-80°)	10797.4	33.9			G4/12000
FVH (80°-90°)	367.6	1.2			G3/500
BL (0°-30°)	1752.6	5.5	B3/2500		
BM (30°-60°)	3223.2	10.1	B3/5000		
BH (60°-80°)	1859.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	256.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4
2.5°	4189.7	4194.1	4190.8	4199.6	4189.7	4196.2	4190.8	4190.8	4187.5	4177.6	4166.6
5°	4255.5	4264.3	4258.8	4267.6	4255.5	4257.7	4247.9	4247.9	4238.0	4217.1	4195.2
7.5°	4358.6	4368.5	4364.1	4372.9	4356.5	4356.5	4343.2	4342.2	4322.5	4288.5	4263.2
10°	4481.5	4494.7	4490.3	4503.5	4490.3	4494.7	4481.5	4481.5	4455.2	4407.0	4375.1
12.5°	4660.3	4676.8	4664.7	4663.6	4658.1	4667.0	4656.0	4653.7	4629.6	4563.8	4520.0
15°	4899.5	4917.1	4891.8	4889.6	4859.0	4855.6	4855.6	4852.3	4837.0	4758.0	4685.6
17.5°	5174.8	5180.3	5158.4	5123.3	5083.8	5058.6	5055.3	5064.1	5064.1	4971.9	4856.7
20°	5444.7	5454.6	5437.1	5397.6	5347.1	5309.8	5283.5	5301.1	5299.9	5190.2	5026.7
22.5°	5738.8	5761.8	5735.4	5685.0	5625.8	5584.1	5538.0	5553.3	5554.4	5419.6	5193.5
25°	6119.4	6098.6	6082.2	6010.8	5926.3	5883.6	5840.8	5856.2	5851.8	5666.3	5365.7
27.5°	6456.3	6460.7	6438.7	6363.0	6265.3	6171.0	6168.8	6178.7	6162.2	5923.1	5528.1
30°	6847.9	6850.0	6819.4	6751.4	6644.9	6523.2	6494.7	6511.1	6476.0	6166.7	5699.3
32.5°	7237.4	7248.3	7214.3	7132.0	7046.5	6898.4	6841.3	6852.3	6764.5	6415.7	5875.9
35°	7578.5	7593.9	7582.9	7528.1	7434.9	7307.5	7239.5	7233.0	7124.4	6720.7	6109.6
37.5°	7926.4	7940.6	7928.5	7882.4	7845.1	7710.2	7674.0	7674.0	7485.3	7032.2	6406.9
40°	8284.0	8305.9	8291.6	8228.0	8196.2	8134.7	8048.1	8027.2	7823.2	7406.3	6891.8
42.5°	8616.3	8644.9	8702.0	8664.6	8600.0	8608.7	8434.2	8423.2	8274.1	7959.2	7500.6
45°	9088.1	9129.8	9226.3	9197.8	9184.7	9136.3	8929.1	8919.2	8862.1	8703.1	8256.5
47.5°	9602.7	9659.7	9834.1	9839.6	9981.2	9890.1	9608.1	9574.1	9587.3	9593.8	9179.2
50°	10076.6	10139.1	10425.4	10560.4	10893.9	10913.6	10462.8	10432.0	10483.5	10635.0	10254.3
52.5°	10455.0	10534.0	10891.7	11308.6	11880.1	12042.5	11514.9	11491.8	11530.1	11791.3	11469.9
55°	10732.6	10818.2	11207.6	11966.8	12879.6	13165.9	12726.0	12704.1	12728.2	13060.6	12791.8
57.5°	10797.4	10818.2	11383.1	12410.0	13723.2	14411.0	14208.2	14164.3	14045.8	14335.4	14250.9
60°	10493.4	10576.8	11238.4	12565.8	14376.0	15638.7	15757.2	15702.4	15369.9	15606.9	15538.9
62.5°	9876.9	10026.1	10697.5	12328.8	14631.6	16641.4	17276.6	17210.8	16638.1	16791.7	16464.8
65°	8869.8	8933.4	9638.8	11511.5	14306.9	17283.2	18631.5	18598.6	17877.8	17637.5	16635.9
67.5°	7068.4	7188.0	7787.0	9803.4	12978.3	17207.5	19679.2	19675.9	18687.4	17951.3	16029.2
69°	5584.1	5708.1	6278.5	8075.5	11484.1	16515.2	19854.7	19893.1	18915.6	17760.4	15162.5
70°	4451.9	4595.6	4987.2	6801.8	10157.8	15602.5	19708.8	19778.0	18871.8	17445.6	14362.8
72.5°	1894.7	2010.9	2289.6	3506.3	6190.8	11650.9	18020.4	18281.5	17854.8	15966.7	11870.2
75°	827.2	863.4	989.6	1429.5	2748.2	6341.0	14117.0	14599.8	15266.8	13496.1	8842.3
77.5°	605.6	621.0	690.1	839.2	1233.1	2394.9	9078.2	9359.1	11010.1	9820.9	5423.9
80°	468.5	479.4	533.2	616.6	805.2	968.7	4140.4	4381.7	6190.8	5044.3	2258.8
82.5°	373.0	380.7	418.0	454.2	556.2	587.0	1374.6	1524.9	2285.2	1393.3	597.9
85°	346.6	355.5	368.6	331.4	356.5	344.5	594.6	622.0	690.1	547.5	250.1
87.5°	156.9	185.4	365.4	257.9	189.8	151.4	243.5	254.5	286.4	287.5	110.8
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°	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4	4163.4
2.5°	4173.2	4170.0	4175.5	4162.2	4178.7	4177.6	4172.1	4174.4	4185.4	4184.2	4185.4
5°	4198.5	4196.2	4202.9	4193.0	4212.7	4219.4	4220.4	4230.3	4242.4	4245.6	4245.6
7.5°	4262.1	4262.1	4265.4	4252.2	4265.4	4264.3	4258.8	4268.7	4280.7	4281.9	4280.7
10°	4371.8	4372.9	4367.5	4333.4	4322.5	4292.9	4265.4	4266.5	4281.9	4293.9	4297.2
12.5°	4510.1	4505.6	4481.5	4419.0	4372.9	4312.6	4284.0	4283.0	4298.3	4308.2	4311.5
15°	4668.0	4656.0	4593.5	4491.4	4410.2	4351.0	4304.9	4293.9	4285.1	4274.2	4275.2
17.5°	4817.2	4789.8	4685.6	4544.1	4458.5	4379.5	4290.6	4219.4	4170.0	4141.5	4132.6
20°	4968.6	4914.8	4764.6	4593.5	4484.8	4341.1	4170.0	4025.1	3935.1	3893.5	3885.9
22.5°	5106.8	5020.2	4838.1	4645.0	4464.0	4211.6	3942.9	3732.2	3607.1	3551.2	3555.6
25°	5241.8	5121.1	4914.8	4681.2	4358.6	3983.5	3626.9	3368.0	3223.2	3160.6	3158.4
27.5°	5360.3	5223.1	4998.2	4651.6	4162.2	3658.7	3252.8	3000.5	2879.8	2826.0	2817.3
30°	5496.3	5351.5	5109.1	4538.6	3874.9	3283.5	2887.5	2709.8	2624.2	2570.4	2560.5
32.5°	5661.9	5525.9	5200.1	4333.4	3507.4	2891.9	2602.3	2478.3	2400.4	2340.0	2329.1
35°	5903.3	5756.3	5223.1	4039.4	3103.6	2582.5	2392.7	2265.4	2160.2	2082.2	2074.6
37.5°	6206.1	6044.8	5170.5	3658.7	2711.9	2381.7	2218.3	2061.4	1924.3	1814.6	1797.0
40°	6642.8	6399.2	5024.6	3219.9	2423.4	2227.1	2048.2	1869.4	1699.3	1571.0	1545.8
42.5°	7167.1	6815.0	4800.7	2783.3	2211.7	2070.2	1879.3	1657.7	1495.3	1404.2	1391.1
45°	7834.1	7247.3	4490.3	2401.4	2003.2	1913.3	1697.2	1493.1	1392.2	1325.2	1314.3
47.5°	8595.5	7732.1	4164.5	2091.0	1826.6	1766.3	1551.2	1419.6	1339.6	1286.8	1277.0
50°	9531.3	8279.6	3818.9	1836.5	1648.9	1589.7	1482.1	1379.0	1315.3	1274.8	1264.9
52.5°	10586.7	8897.2	3569.9	1635.7	1501.8	1459.1	1445.9	1357.1	1305.5	1274.8	1264.9
55°	11723.2	9525.8	3301.0	1466.8	1374.6	1386.7	1421.8	1359.2	1324.2	1286.8	1272.6
57.5°	12860.9	10175.3	3001.5	1324.2	1273.7	1333.0	1405.3	1363.7	1334.1	1297.8	1284.7
60°	13760.5	10586.7	2537.5	1204.6	1193.6	1273.7	1365.8	1330.7	1292.3	1293.5	1291.2
62.5°	14180.7	10564.8	2025.2	1098.2	1113.5	1193.6	1302.2	1279.2	1247.3	1290.2	1293.5
65°	13944.8	10038.2	1576.5	1001.6	1028.0	1110.2	1236.3	1254.0	1264.9	1347.2	1358.2
67.5°	12955.3	9013.5	1221.1	917.1	950.1	1053.2	1243.0	1365.8	1380.1	1466.8	1465.7
69°	11931.7	8052.5	1060.8	873.2	911.7	1067.5	1328.6	1437.2	1383.4	1475.6	1462.4
70°	11073.8	7292.2	975.3	843.6	894.1	1092.7	1385.6	1436.1	1367.0	1445.9	1424.0
72.5°	8528.6	5246.2	827.2	788.8	834.9	1045.5	1402.1	1404.2	1328.6	1343.9	1306.6
75°	5849.6	3315.4	721.9	714.2	744.9	942.4	1349.3	1341.7	1228.7	1206.8	1176.1
77.5°	3225.4	1684.0	613.2	642.9	663.7	834.9	1226.5	1215.6	1122.3	1076.2	1065.2
80°	1244.1	737.2	517.8	571.6	584.7	723.0	1075.1	1065.2	987.3	928.1	911.7
82.5°	469.5	386.1	427.9	494.7	490.4	596.8	910.6	905.1	829.4	742.7	716.4
85°	217.2	231.5	339.0	408.1	376.3	442.1	728.5	738.3	646.2	543.1	543.1
87.5°	92.1	129.5	240.2	308.2	253.4	298.4	534.2	510.1	468.5	324.7	305.0
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)