

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: P383175

Luminaire Tested: **GLEON-SA5A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21291.5 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

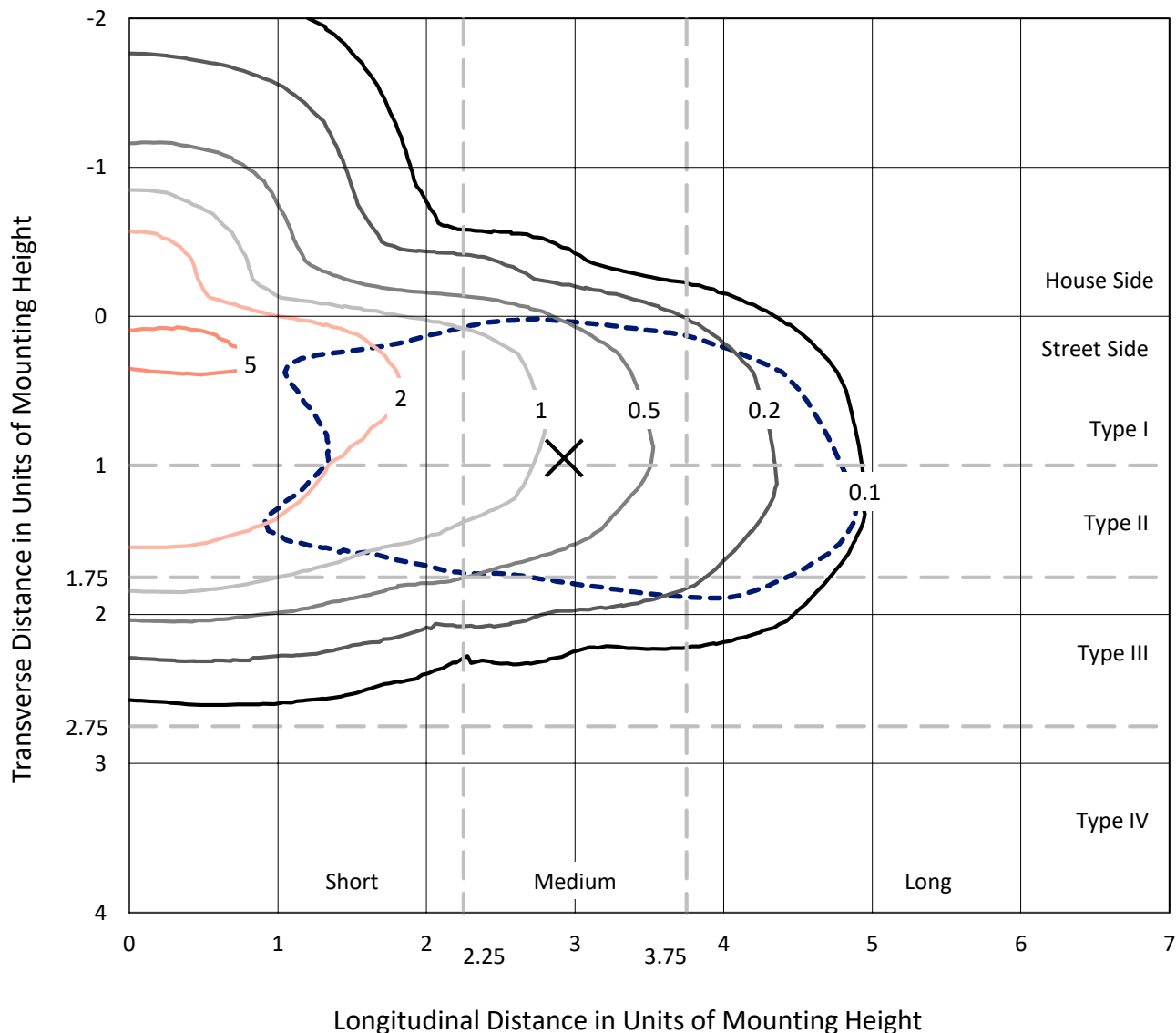
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383175
 CATALOG NUMBER: GLEON-SA5A-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

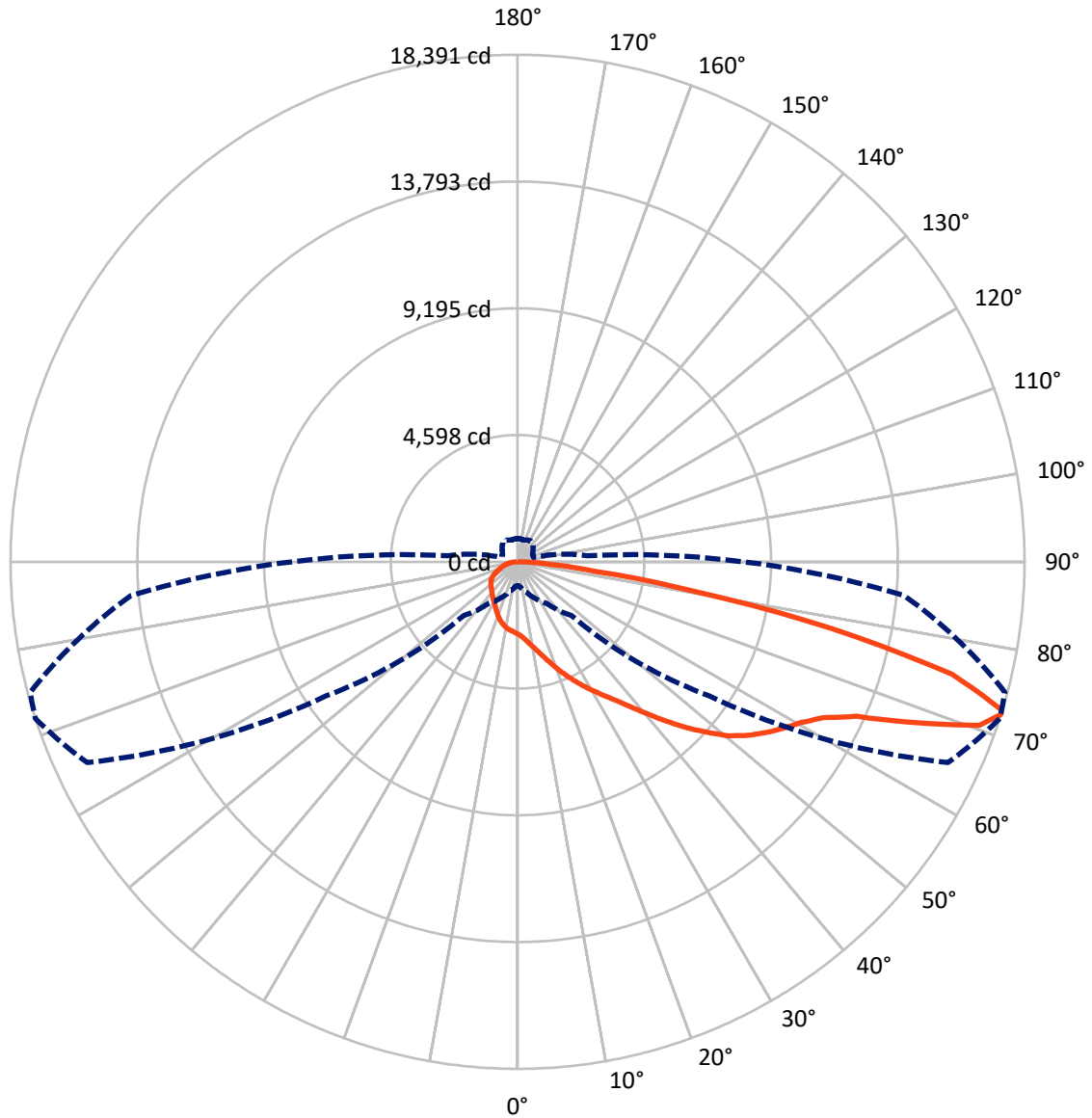
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P383175
CATALOG NUMBER: GLEON-SA5A-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P383175
 CATALOG NUMBER: GLEON-SA5A-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3949.7	0.0	3949.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17341.8	0.0	17341.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	21291.5	0.0	21291.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.2
10°-20°	848.2	4.0
20°-30°	1486.3	7.0
30°-40°	2203.7	10.4
40°-50°	3223.1	15.1
50°-60°	4434.9	20.8
60°-70°	4937.4	23.2
70°-80°	3345.6	15.7
80°-90°	549.9	2.6
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°	21291.5	100.0
0°-180°	21291.5	100.0

Coefficient of Utilization

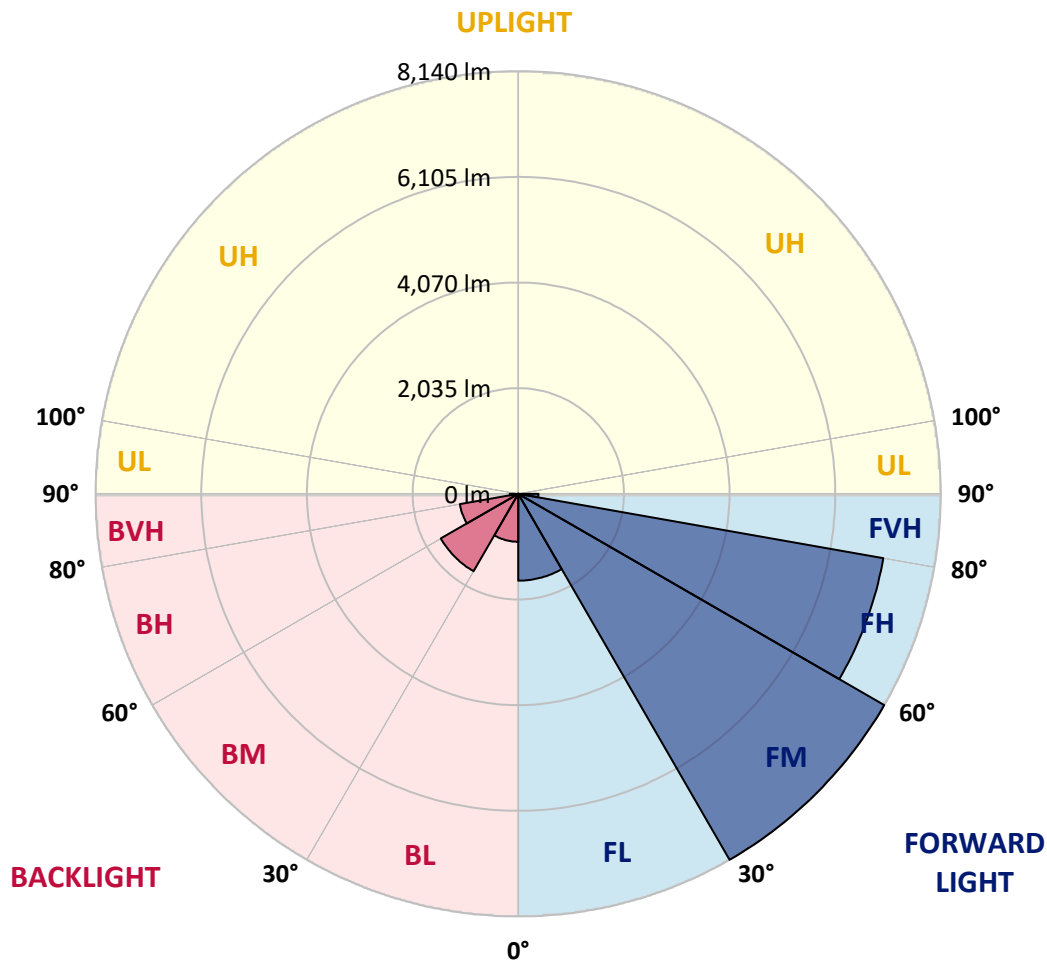


REPORT NUMBER: P383175
 CATALOG NUMBER: GLEON-SA5A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.6	7.9			
FM (30°-60°)	8140.0	38.2			
FH (60°-80°)	7140.2	33.5			G3/7500
FVH (80°-90°)	387.9	1.8			G3/500
BL (0°-30°)	923.3	4.3	B2/1000		
BM (30°-60°)	1721.7	8.1	B2/2500		
BH (60°-80°)	1142.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	162.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





REPORT NUMBER: P383175

CATALOG NUMBER: GLEON-SA5A-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4
2.5°	2893.6	2889.2	2873.8	2873.8	2844.5	2819.5	2772.7	2741.1	2703.7	2690.5	2646.5
5°	3173.6	3175.1	3156.1	3142.9	3099.6	3046.8	2966.9	2894.3	2821.8	2792.4	2702.2
7.5°	3409.0	3406.0	3400.9	3389.9	3349.6	3295.3	3187.6	3079.8	2972.8	2928.8	2773.4
10°	3560.0	3566.6	3571.0	3576.1	3559.3	3520.4	3418.5	3287.2	3147.2	3087.1	2858.4
12.5°	3636.2	3647.9	3668.5	3703.6	3731.5	3727.1	3653.1	3513.8	3347.4	3271.9	2964.7
15°	3680.9	3696.4	3728.6	3791.7	3870.1	3914.8	3895.0	3768.9	3583.5	3490.3	3094.4
17.5°	3708.8	3721.3	3771.1	3855.4	3972.0	4090.8	4142.8	4037.2	3850.3	3744.0	3243.3
20°	3727.9	3737.4	3799.7	3898.7	4049.7	4238.8	4384.0	4357.6	4144.3	4006.5	3398.7
22.5°	3770.3	3778.5	3837.8	3937.6	4104.7	4348.8	4616.4	4656.0	4454.4	4298.3	3565.1
25°	3889.1	3889.1	3939.0	4008.6	4165.5	4444.1	4812.8	4988.1	4771.1	4589.3	3719.1
27.5°	4115.7	4113.5	4131.8	4156.0	4274.8	4540.9	4988.1	5281.3	5099.5	4900.9	3868.6
30°	4384.0	4398.7	4400.8	4389.2	4444.9	4661.8	5150.1	5590.7	5430.2	5216.1	4021.9
32.5°	4729.3	4738.8	4727.8	4688.9	4680.9	4833.4	5309.2	5914.8	5787.9	5545.2	4161.9
35°	5167.7	5149.4	5114.9	5035.8	4960.2	5062.9	5491.0	6238.8	6189.7	5943.4	4354.7
37.5°	5637.6	5638.4	5595.8	5416.2	5312.2	5356.1	5741.7	6606.1	6675.7	6416.9	4601.8
40°	6014.4	6034.2	6060.6	5824.6	5689.7	5750.5	6060.6	7032.0	7250.4	6978.5	4923.6
42.5°	6277.6	6300.3	6375.1	6227.0	6087.0	6199.9	6436.0	7486.6	7895.6	7626.6	5300.4
45°	6556.2	6568.7	6621.4	6557.6	6468.2	6722.6	6859.0	7957.2	8578.2	8317.1	5721.9
47.5°	6849.5	6862.6	6916.9	6874.4	6827.5	7210.8	7300.4	8400.7	9232.1	9075.9	6172.1
50°	7211.6	7220.4	7271.8	7194.7	7209.4	7578.9	7694.8	8807.6	9917.5	9757.7	6623.7
52.5°	7705.8	7707.9	7779.1	7709.4	7640.5	7848.7	8034.1	9191.0	10454.9	10379.4	7075.3
55°	8092.8	8116.3	8349.4	8334.7	8295.2	8093.6	8317.9	9556.1	10934.3	10970.3	7554.7
57.5°	7845.8	7937.3	8409.5	8742.4	9066.4	8702.8	8701.3	9967.4	11380.1	11550.2	8081.8
60°	6871.5	6996.1	7691.8	8430.0	9443.9	9762.8	9497.4	10469.6	11830.2	12124.9	8742.4
62.5°	4907.5	5112.7	6055.5	7234.3	8926.4	10465.2	11117.6	11266.4	12442.3	12790.6	9600.8
65°	2480.8	2636.3	3426.6	4846.6	7131.7	10006.2	12878.6	13011.2	13506.1	13815.5	10922.6
67.5°	1507.2	1565.9	1951.5	2695.6	4372.3	7794.4	13453.3	15919.5	15564.7	15728.9	12807.5
70°	1110.7	1153.9	1394.3	1790.2	2514.5	4573.9	11689.4	17994.9	17761.8	17743.5	14200.3
72°	865.0	896.6	1109.2	1446.4	1838.6	2744.1	8472.5	17228.8	18390.8	18298.5	14072.8
72.5°	820.3	848.2	1041.7	1361.4	1737.4	2487.4	7617.7	16712.0	18345.3	18303.6	13907.8
75°	645.8	665.7	771.2	1052.7	1360.0	1411.2	4174.4	12951.1	16274.3	16951.0	12509.1
77.5°	534.4	537.4	593.1	766.1	1060.1	997.8	2050.5	8985.7	11653.6	12397.6	8861.1
80°	435.5	439.1	465.5	537.4	802.1	738.3	973.6	5166.9	6524.7	6532.8	4213.9
82.5°	346.7	347.5	376.8	392.9	576.3	527.8	557.9	2425.8	2851.1	2742.6	1514.6
85°	244.2	239.0	368.1	322.6	376.8	338.7	307.9	960.3	1178.9	1127.5	474.3
87.5°	81.4	84.3	163.5	208.9	219.9	192.1	137.1	368.1	445.0	441.4	150.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383175
 CATALOG NUMBER: GLEON-SA5A-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4	2619.4
2.5°	2632.6	2609.2	2574.7	2536.6	2506.5	2475.7	2453.0	2441.2	2428.1	2417.1	2430.2
5°	2660.5	2616.4	2543.1	2471.3	2418.6	2371.6	2337.9	2320.3	2304.2	2293.2	2294.7
7.5°	2705.9	2634.8	2511.6	2406.8	2333.5	2282.9	2248.5	2236.7	2226.5	2223.5	2227.1
10°	2754.3	2649.5	2469.8	2330.5	2247.0	2205.2	2189.8	2197.9	2205.2	2211.8	2219.1
12.5°	2809.3	2662.6	2409.0	2241.1	2170.0	2153.9	2169.3	2204.5	2230.1	2245.5	2255.1
15°	2881.1	2674.4	2338.7	2151.7	2104.0	2122.3	2174.4	2235.2	2280.0	2308.6	2312.9
17.5°	2947.1	2673.6	2248.5	2061.5	2050.5	2104.0	2182.4	2268.2	2328.4	2368.6	2376.8
20°	3015.3	2653.9	2143.6	1973.6	1996.3	2084.2	2186.2	2289.5	2362.1	2409.0	2420.0
22.5°	3079.0	2619.4	2028.5	1893.6	1950.8	2057.9	2172.2	2277.1	2349.6	2387.7	2399.5
25°	3122.4	2559.3	1911.9	1826.2	1910.5	2025.6	2126.7	2211.0	2265.3	2284.3	2287.3
27.5°	3144.3	2480.8	1802.0	1767.5	1868.7	1972.8	2042.4	2084.2	2099.6	2098.1	2095.2
30°	3147.2	2377.5	1707.4	1719.9	1820.3	1895.0	1928.1	1920.0	1900.3	1866.5	1869.4
32.5°	3137.7	2261.0	1628.3	1674.5	1758.8	1800.5	1802.0	1763.1	1710.3	1656.9	1642.1
35°	3140.6	2146.6	1558.6	1623.1	1684.0	1702.3	1685.4	1628.3	1556.4	1487.5	1472.8
37.5°	3172.9	2046.9	1498.5	1563.7	1601.1	1605.5	1581.3	1521.2	1468.4	1401.0	1395.1
40°	3249.9	1975.7	1441.3	1497.0	1518.2	1520.5	1486.0	1443.5	1447.9	1411.9	1411.2
42.5°	3388.4	1945.0	1390.7	1427.4	1440.5	1444.9	1418.6	1391.5	1429.6	1406.1	1398.1
45°	3567.4	1952.2	1348.2	1359.2	1383.3	1403.9	1387.8	1354.7	1369.5	1267.6	1233.8
47.5°	3774.1	1999.2	1314.5	1300.5	1342.4	1381.2	1356.2	1306.4	1254.3	1153.2	1134.2
50°	4016.0	2071.8	1283.7	1242.6	1297.6	1350.4	1325.5	1254.3	1175.9	1126.8	1120.2
52.5°	4268.2	2160.4	1252.9	1178.9	1241.2	1326.9	1314.5	1242.6	1145.9	1097.5	1088.7
55°	4554.1	2249.9	1214.0	1104.8	1180.3	1315.9	1309.3	1200.1	1123.2	1096.0	1089.4
57.5°	4909.6	2351.8	1162.8	1027.8	1123.2	1276.3	1255.8	1174.4	1099.7	1079.1	1077.0
60°	5373.0	2502.1	1088.7	945.7	1053.5	1215.5	1211.1	1137.0	1062.2	1047.6	1044.6
62.5°	6067.9	2750.7	986.8	863.6	975.8	1112.2	1152.4	1086.5	1022.7	1022.0	1023.4
65°	7145.6	3124.5	876.0	791.7	897.4	1024.9	1084.2	1034.4	982.4	997.0	999.3
67.5°	8394.8	3434.6	767.6	721.4	817.4	942.1	1022.7	982.4	928.8	966.9	967.7
70°	8810.5	3157.5	672.3	651.7	734.6	862.1	956.0	925.2	870.9	909.1	905.4
72°	8199.1	2549.0	610.7	599.0	672.3	796.2	896.6	871.6	818.2	843.8	834.3
72.5°	8006.3	2430.2	595.3	585.8	655.4	779.3	881.2	858.5	805.0	826.9	818.2
75°	7142.0	2110.6	511.7	513.9	571.8	697.2	794.7	787.3	732.4	734.6	731.6
77.5°	5180.1	1547.6	431.0	445.7	486.8	612.9	707.4	703.0	643.0	632.0	629.7
80°	2403.9	789.6	351.2	357.7	400.3	512.4	603.4	597.5	549.1	535.2	527.1
82.5°	823.3	375.3	263.9	268.3	310.1	412.8	523.4	519.8	479.5	452.4	435.5
85°	294.0	187.0	184.7	180.3	221.4	324.7	456.0	436.2	376.8	321.1	319.6
87.5°	95.3	79.9	95.3	94.6	129.0	219.9	331.4	282.3	273.4	227.3	222.8
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)