

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: P382713

Luminaire Tested: **GLEON-SA1A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3720.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

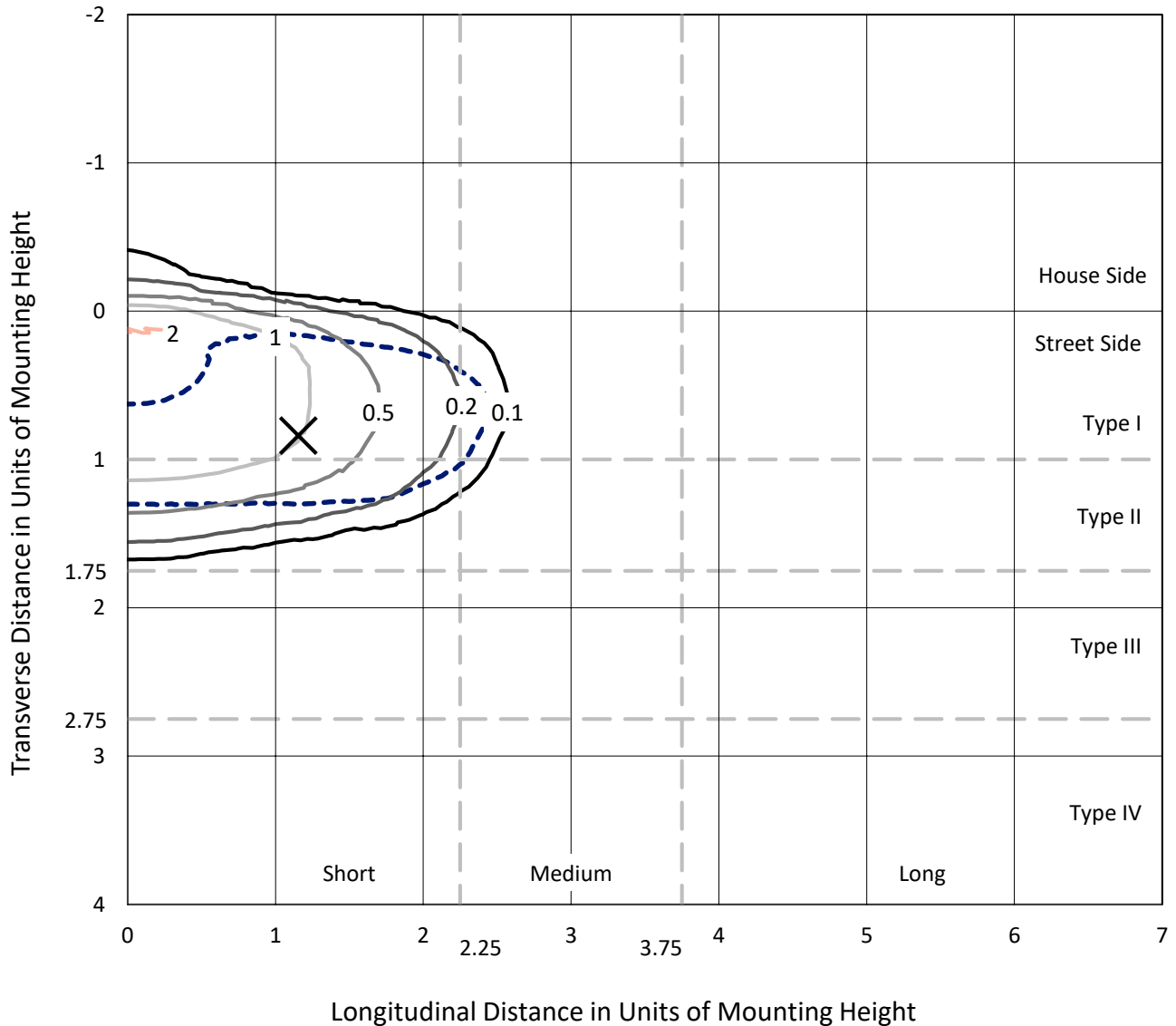
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382713
 CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

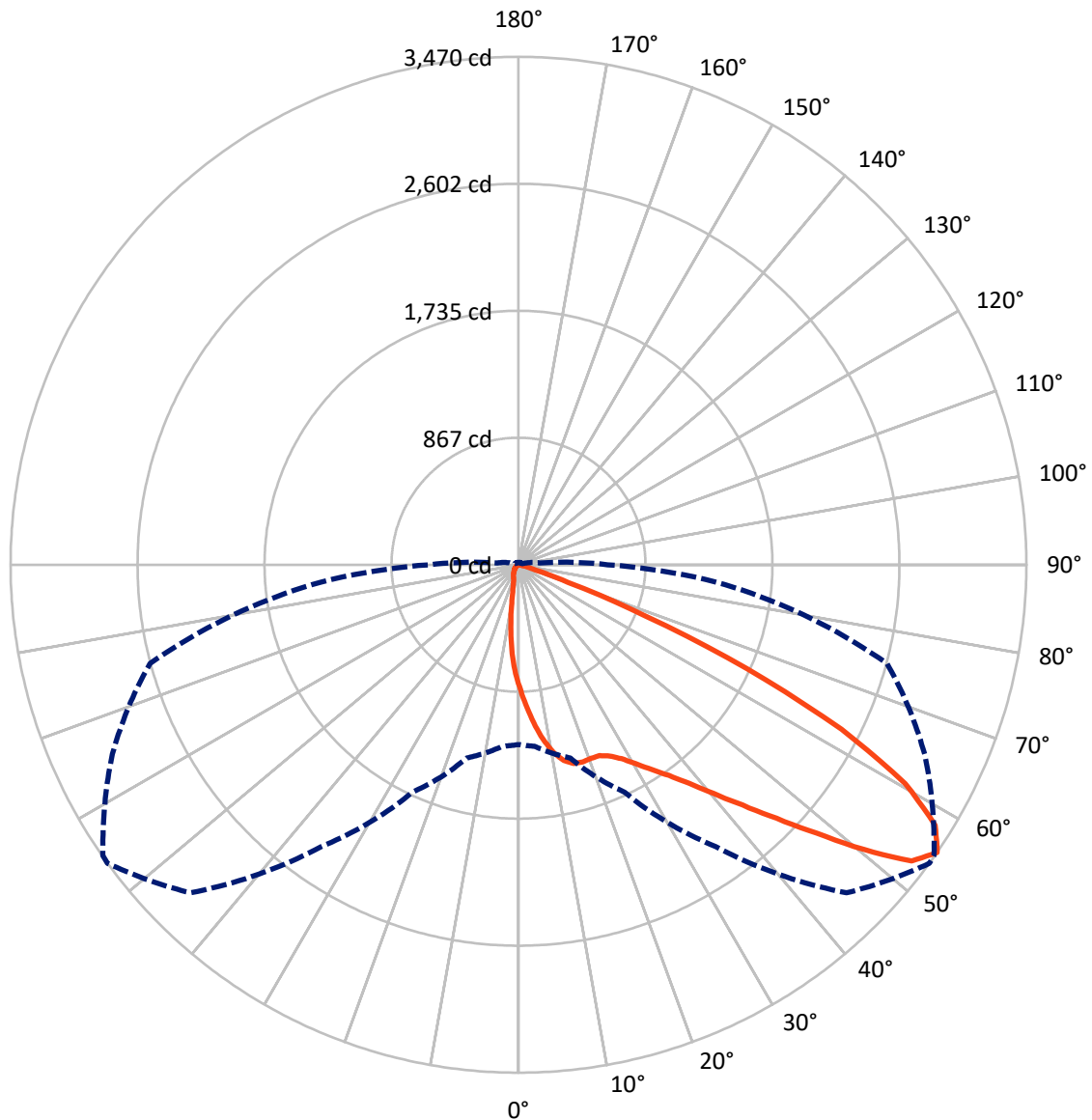
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P382713
CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P382713
 CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	185.6	0.0	185.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3535.0	0.0	3535.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	3720.6	0.0	3720.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	2.1
10°-20°	210.4	5.7
20°-30°	359.3	9.7
30°-40°	576.6	15.5
40°-50°	921.4	24.8
50°-60°	987.3	26.5
60°-70°	506.9	13.6
70°-80°	76.8	2.1
80°-90°	5.0	0.1
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°	3720.6	100.0
0°-180°	3720.6	100.0

Coefficient of Utilization

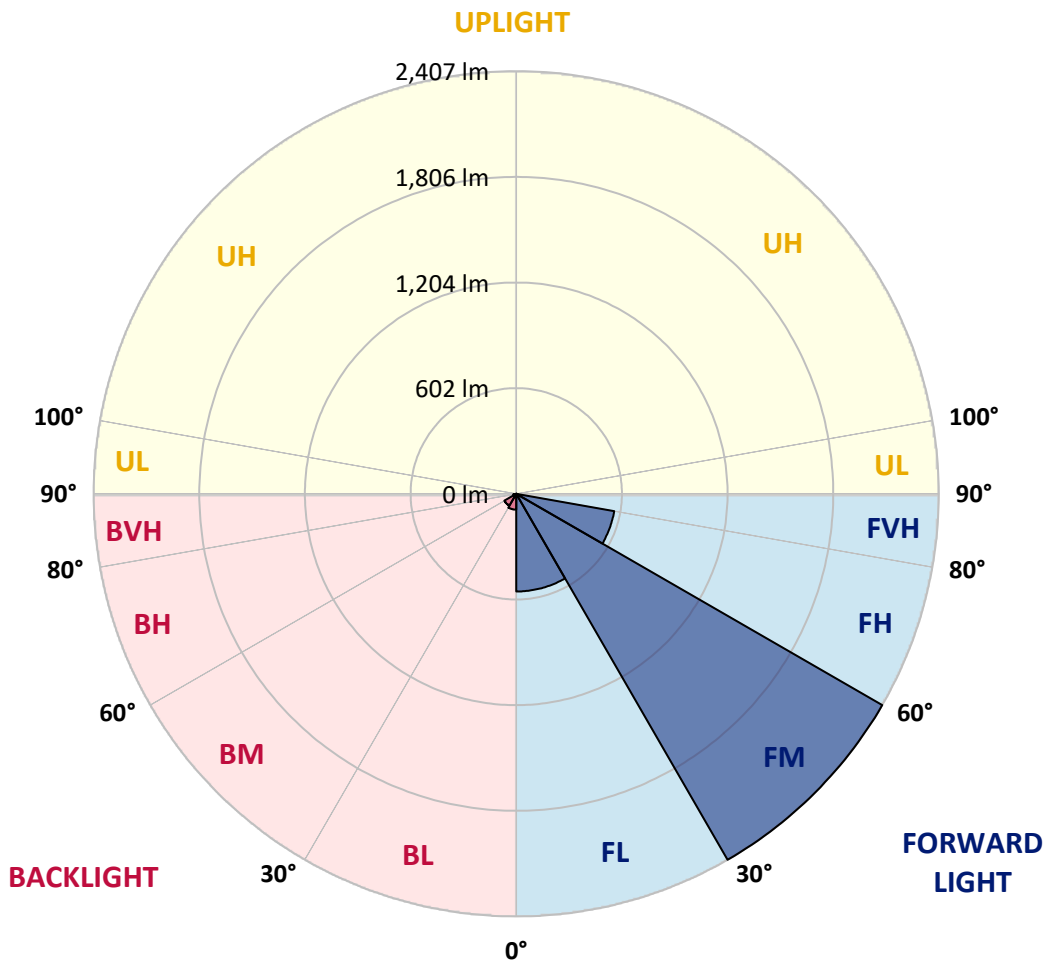


REPORT NUMBER: P382713
 CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.2	14.9			
FM (30°-60°)	2407.4	64.7			
FH (60°-80°)	566.6	15.2			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	90.3	2.4	B0/110		
BM (30°-60°)	78.0	2.1	B0/220		
BH (60°-80°)	17.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





REPORT NUMBER: P382713

CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3
2.5°	1045.7	1030.1	1030.6	1023.5	997.6	977.4	956.3	951.4	918.6	884.2	851.1
5°	1226.5	1215.0	1212.3	1198.6	1162.7	1124.6	1083.8	1074.3	1010.2	939.8	870.5
7.5°	1319.4	1319.4	1317.2	1312.3	1289.7	1252.7	1203.0	1193.0	1105.7	1000.2	890.7
10°	1292.3	1298.4	1311.0	1327.5	1344.7	1340.0	1302.6	1293.6	1198.8	1064.2	913.3
12.5°	1229.4	1230.1	1244.1	1271.3	1320.7	1371.5	1372.2	1369.1	1287.7	1131.0	938.1
15°	1198.0	1201.0	1206.2	1223.7	1270.6	1352.0	1410.1	1414.5	1369.1	1202.0	964.3
17.5°	1218.6	1222.9	1218.6	1220.7	1247.8	1320.9	1416.7	1427.8	1440.3	1272.2	989.3
20°	1274.4	1278.4	1270.6	1262.2	1267.4	1311.9	1412.0	1426.9	1496.1	1334.5	1010.2
22.5°	1349.5	1351.1	1339.4	1325.4	1321.6	1342.5	1415.9	1431.3	1540.7	1391.0	1023.3
25°	1432.3	1433.7	1419.1	1403.0	1393.9	1402.4	1447.5	1459.1	1580.1	1444.8	1030.9
27.5°	1522.4	1523.7	1505.4	1485.6	1475.0	1475.3	1499.8	1512.1	1622.0	1506.2	1037.0
30°	1617.7	1617.1	1600.2	1572.7	1559.2	1558.9	1575.0	1587.5	1682.7	1584.9	1045.4
32.5°	1724.7	1723.5	1699.5	1665.4	1650.1	1652.4	1666.7	1673.9	1758.1	1668.8	1060.3
35°	1865.6	1861.9	1825.7	1783.5	1755.4	1754.6	1766.6	1772.5	1854.2	1770.3	1085.2
37.5°	2048.5	2045.1	1996.1	1934.7	1895.1	1880.4	1894.7	1902.1	1991.3	1900.6	1125.2
40°	2228.7	2225.4	2196.3	2140.0	2079.1	2043.6	2054.9	2062.7	2162.4	2058.7	1175.7
42.5°	2353.1	2356.0	2366.1	2370.8	2313.8	2239.2	2244.3	2252.5	2342.2	2227.8	1233.4
45°	2385.9	2392.1	2449.3	2561.7	2583.0	2524.9	2471.0	2475.5	2524.9	2396.8	1291.0
47.5°	2287.4	2299.0	2409.4	2618.2	2799.1	2840.3	2738.4	2732.4	2700.2	2533.5	1332.0
50°	2063.6	2074.2	2217.2	2526.2	2864.7	3141.4	3058.8	3041.3	2853.9	2615.3	1346.5
52.5°	1739.7	1752.5	1868.7	2236.3	2741.2	3275.7	3362.1	3347.5	2966.7	2621.7	1348.9
55°	1228.5	1244.1	1367.0	1714.0	2349.5	3168.8	3469.6	3465.3	3060.4	2604.7	1354.0
57.5°	690.5	701.6	834.2	1098.7	1720.8	2760.1	3357.3	3386.1	3117.0	2575.2	1361.7
60°	306.6	309.6	378.2	546.9	1007.5	2109.4	3035.8	3084.4	3068.4	2535.7	1374.8
62.5°	170.0	167.4	167.4	227.4	437.8	1305.8	2475.5	2555.7	2861.3	2488.9	1375.4
65°	133.2	130.8	123.9	124.8	166.7	579.5	1714.2	1856.8	2467.9	2351.8	1329.1
67.5°	113.0	110.9	104.0	101.3	103.7	191.2	941.9	1089.9	1872.7	1995.6	1151.2
70°	95.5	94.0	90.5	87.1	81.0	94.5	360.4	461.0	1154.0	1327.5	785.9
72.5°	76.8	76.2	77.4	74.5	67.2	63.0	123.2	149.2	518.3	592.4	323.8
75°	66.2	65.9	66.5	63.6	55.2	43.9	62.7	68.5	146.3	144.9	65.6
77.5°	43.0	43.5	55.1	53.8	47.6	29.3	32.4	35.0	44.3	33.3	19.9
80°	27.5	27.1	27.9	44.7	42.8	22.4	16.2	17.0	21.3	16.4	9.6
82.5°	16.7	16.4	18.4	20.9	21.5	15.6	10.0	10.2	13.3	10.6	5.1
85°	1.5	2.0	11.1	10.2	7.4	4.8	4.8	5.1	7.1	6.2	2.9
87.5°	0.0	0.0	2.0	2.9	1.6	1.8	1.8	2.0	2.7	2.7	1.5
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: P382713

CATALOG NUMBER: GLEON-SA1A-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3	833.3
2.5°	833.9	817.2	783.4	751.0	723.5	697.0	666.8	636.9	622.9	617.3	611.6
5°	835.3	800.9	731.4	661.3	588.7	523.3	467.5	410.3	381.7	369.3	363.5
7.5°	837.3	784.9	672.4	554.8	437.8	349.1	271.7	221.9	200.4	197.0	188.6
10°	837.6	765.5	604.0	437.2	293.5	210.5	162.0	136.3	126.8	125.2	122.4
12.5°	838.2	742.4	528.0	323.8	195.7	140.8	117.1	108.6	106.0	105.9	105.9
15°	840.2	718.4	449.1	233.3	140.6	111.5	102.8	99.5	98.5	98.9	98.8
17.5°	840.2	689.9	371.7	173.8	113.6	100.2	95.5	93.2	92.9	93.3	93.5
20°	834.1	655.4	300.6	135.3	100.7	93.1	88.7	86.6	85.8	86.2	86.3
22.5°	819.5	613.0	242.8	112.0	92.2	86.4	81.8	78.5	77.3	77.4	77.4
25°	796.7	562.7	189.9	96.9	85.3	79.4	73.9	70.2	69.4	69.2	69.6
27.5°	767.4	507.1	151.2	85.3	77.1	71.5	66.0	63.0	62.3	62.5	62.7
30°	738.6	449.4	119.2	75.5	68.0	62.7	58.5	57.0	57.0	57.5	57.7
32.5°	712.3	394.0	94.3	67.0	59.8	55.0	52.5	52.4	53.2	53.5	53.7
35°	689.6	342.7	78.1	60.5	53.4	49.2	48.3	49.0	49.9	50.6	50.8
37.5°	673.5	296.9	68.3	55.0	48.3	45.0	44.8	46.1	47.4	48.8	49.2
40°	666.8	258.2	61.6	50.1	44.3	41.7	41.3	43.0	45.5	47.6	47.9
42.5°	661.2	226.6	55.8	45.5	41.2	37.4	37.3	39.5	42.4	44.5	45.0
45°	656.4	201.1	50.5	40.5	37.0	32.1	32.6	35.5	37.7	40.0	40.5
47.5°	646.4	180.3	44.7	35.2	30.6	27.5	28.4	31.0	32.8	36.1	36.6
50°	628.6	163.2	38.8	28.8	24.9	23.8	25.2	27.0	29.3	32.1	32.4
52.5°	616.5	150.4	33.5	24.1	20.6	20.9	22.4	23.0	24.2	25.4	25.1
55°	609.6	143.4	29.4	20.9	17.5	18.4	18.8	18.0	17.3	16.2	15.7
57.5°	608.8	136.9	26.2	18.2	15.5	15.9	14.8	12.0	9.8	8.5	8.2
60°	607.6	129.0	23.7	15.3	13.7	13.0	10.6	6.6	4.7	4.4	4.4
62.5°	593.6	116.8	21.7	12.9	11.6	9.8	6.1	3.1	2.6	2.7	2.7
65°	549.1	99.8	19.7	10.4	9.1	7.1	3.1	1.8	0.9	1.1	1.1
67.5°	466.8	79.6	17.7	8.0	6.9	4.5	1.8	0.8	0.0	0.0	0.0
70°	312.5	49.4	14.9	5.6	4.5	2.7	1.3	0.2	0.0	0.0	0.0
72.5°	119.9	26.6	12.0	3.4	2.9	2.0	0.8	0.0	0.0	0.0	0.0
75°	27.0	17.5	8.4	2.4	2.0	1.3	0.3	0.0	0.0	0.0	0.0
77.5°	10.2	12.7	4.8	1.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0
80°	4.9	7.5	2.2	0.9	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	2.9	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	1.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.5	0.2	0.2	0.0	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)