

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: P382736

Luminaire Tested: **GLEON-SA1A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3294 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

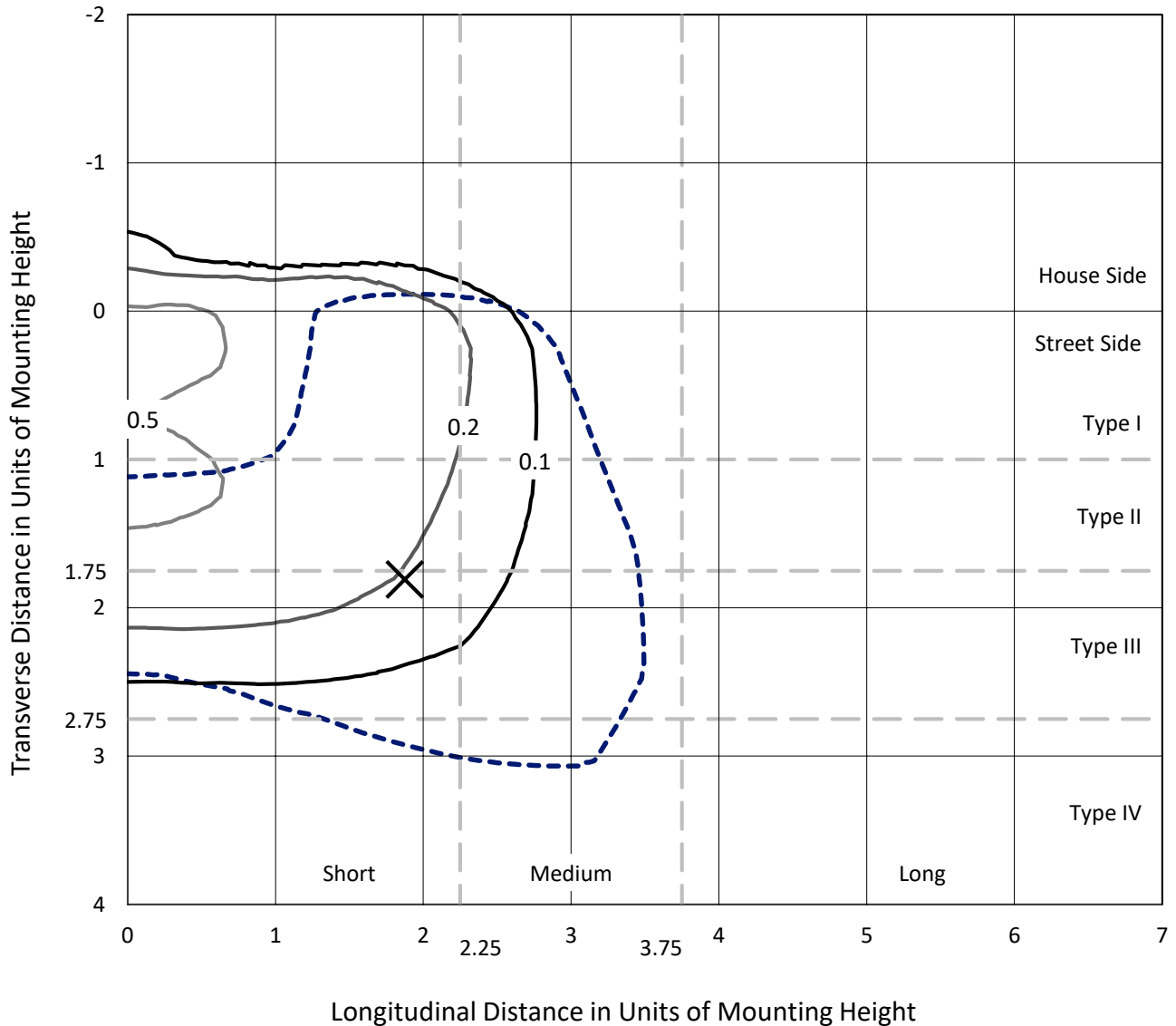
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

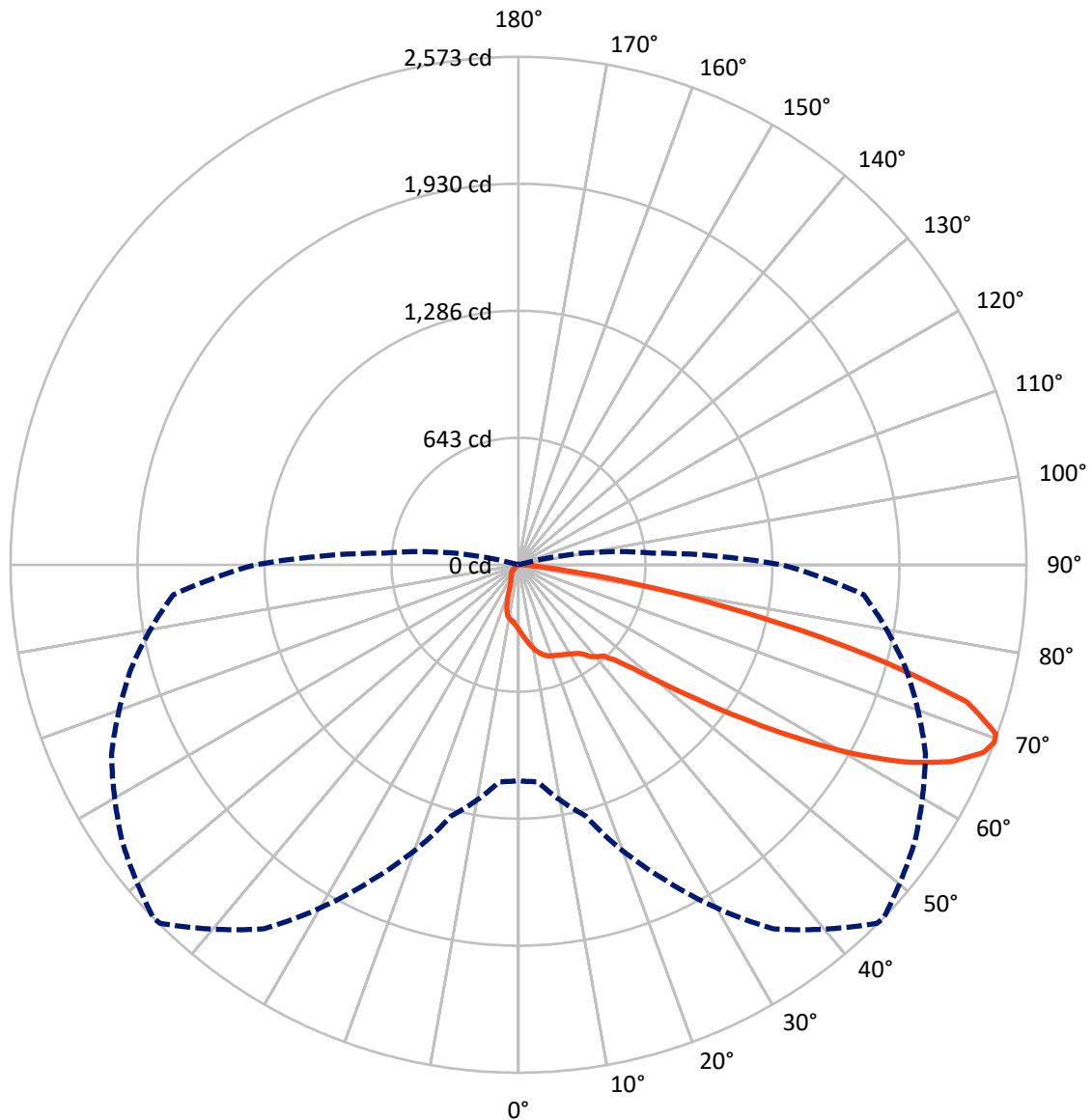
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.1	0.0	338.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2955.9	0.0	2955.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	3294.0	0.0	3294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.0
10°-20°	99.7	3.0
20°-30°	156.7	4.8
30°-40°	224.8	6.8
40°-50°	388.5	11.8
50°-60°	767.4	23.3
60°-70°	1072.6	32.6
70°-80°	518.2	15.7
80°-90°	33.3	1.0
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°	3294.0	100.0
0°-180°	3294.0	100.0

Coefficient of Utilization



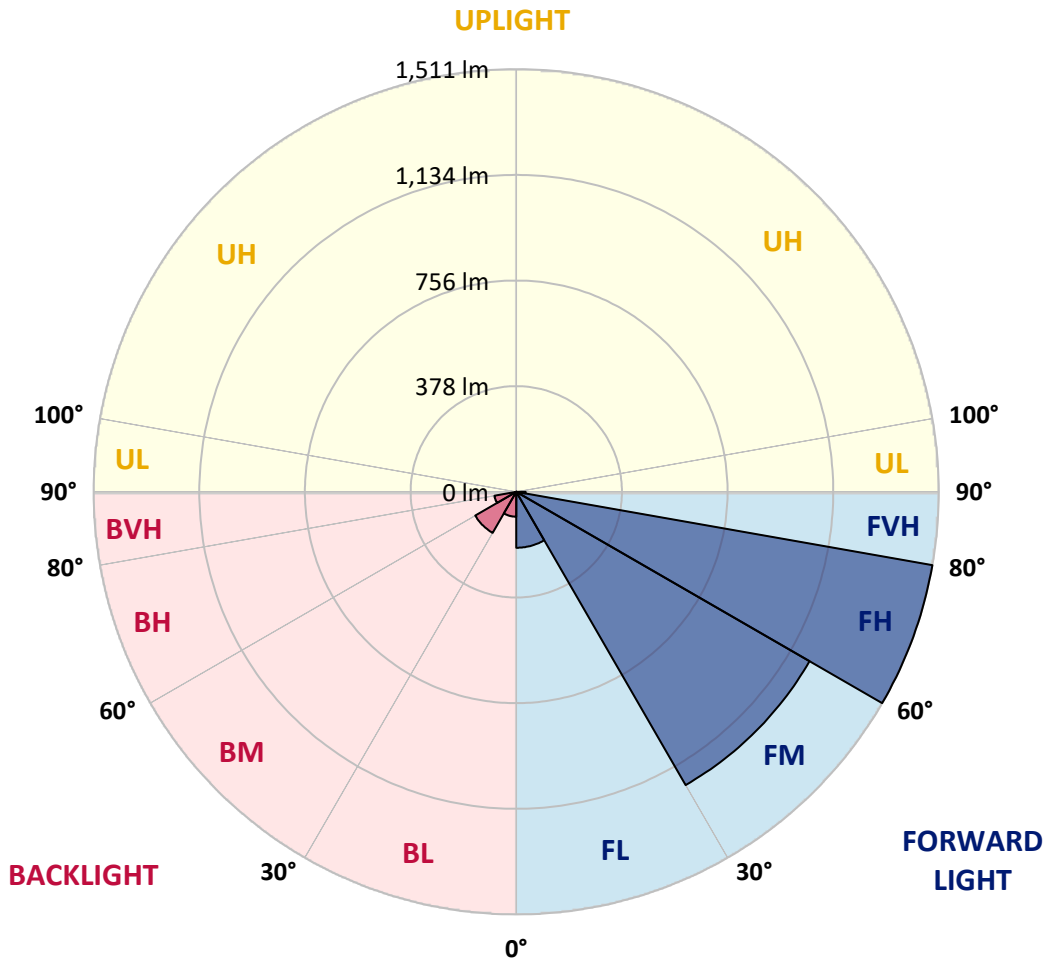
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.1	6.1			
FM (30°-60°)	1211.3	36.8			
FH (60°-80°)	1511.5	45.9			G1/1800
FVH (80°-90°)	33.0	1.0			G1/100
BL (0°-30°)	89.1	2.7	B0/110		
BM (30°-60°)	169.4	5.1	B0/220		
BH (60°-80°)	79.3	2.4	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
2.5°	366.7	366.2	364.0	363.1	357.8	354.7	353.5	349.6	344.1	338.5	332.4
5°	408.3	408.2	404.2	400.3	390.4	381.2	379.4	370.5	358.0	346.3	334.5
7.5°	451.0	449.0	444.9	437.5	423.2	408.3	407.0	394.3	376.5	359.6	342.7
10°	487.1	485.9	480.6	469.3	452.5	435.7	434.0	418.4	398.3	377.5	355.9
12.5°	515.2	514.3	507.3	493.3	475.4	457.9	455.6	441.7	420.2	396.9	371.6
15°	532.4	531.9	523.4	508.4	490.8	475.6	473.7	461.5	441.6	417.1	388.5
17.5°	536.4	536.6	527.7	512.6	498.1	487.3	485.7	476.5	459.8	435.5	405.6
20°	527.4	529.3	521.4	508.3	499.3	493.6	492.3	486.8	472.8	449.8	419.2
22.5°	514.8	515.7	510.3	501.5	497.7	498.8	498.2	495.1	483.3	462.2	432.6
25°	507.0	507.0	503.8	496.4	498.8	505.5	505.6	505.0	495.6	477.4	449.0
27.5°	506.8	505.8	502.1	496.5	503.3	513.6	514.1	518.3	512.4	495.8	469.3
30°	519.1	518.0	510.1	502.8	511.5	522.5	524.0	533.1	530.2	515.7	492.0
32.5°	547.9	544.1	526.6	514.8	521.2	534.3	536.4	550.9	555.5	540.2	514.0
35°	587.5	575.3	550.1	537.3	537.9	551.7	553.5	574.9	588.6	562.7	531.0
37.5°	642.0	636.0	595.1	560.8	563.6	584.5	589.9	613.0	609.1	575.1	550.3
40°	761.5	752.1	708.5	626.6	588.1	611.0	612.7	625.1	625.3	603.1	590.4
42.5°	924.4	920.5	874.6	746.0	636.4	628.7	631.8	652.6	676.0	662.1	661.5
45°	1104.5	1102.6	1054.0	904.4	734.2	686.9	690.8	718.8	763.4	766.5	786.1
47.5°	1249.6	1248.6	1220.7	1081.2	883.9	785.7	786.9	816.5	895.0	933.8	965.1
50°	1381.8	1386.2	1364.2	1272.6	1087.8	940.2	937.3	957.1	1083.1	1146.5	1185.5
52.5°	1565.6	1571.9	1509.9	1451.2	1301.7	1132.0	1129.8	1150.5	1309.2	1356.8	1363.7
55°	1727.9	1717.1	1668.1	1651.2	1562.5	1369.0	1368.4	1386.6	1527.9	1548.1	1560.9
57.5°	1799.6	1795.4	1819.0	1858.0	1835.7	1648.9	1647.6	1633.7	1723.5	1725.7	1765.1
60°	1844.8	1849.9	1922.3	2042.3	2097.8	1950.3	1941.3	1856.6	1910.4	1905.7	1947.8
62.5°	1810.8	1820.9	1951.2	2151.2	2293.9	2213.3	2200.6	2060.7	2070.2	2053.6	2092.8
65°	1630.4	1646.0	1859.6	2130.6	2391.2	2418.9	2406.0	2240.9	2197.0	2169.8	2148.0
67.5°	1323.9	1333.1	1556.2	1952.0	2347.3	2541.4	2538.8	2398.9	2292.7	2150.1	1981.2
69°	1094.1	1103.1	1317.9	1763.9	2250.8	2567.7	2572.8	2449.6	2274.5	2030.9	1755.4
70°	926.6	936.4	1136.4	1602.6	2138.8	2555.5	2564.6	2444.8	2222.3	1892.8	1557.3
72.5°	486.0	494.4	699.6	1104.1	1743.7	2346.6	2374.2	2238.1	1883.7	1374.7	920.7
75°	152.8	157.5	273.2	577.2	1193.9	1824.5	1830.9	1755.7	1337.6	756.1	383.5
77.5°	58.2	56.8	91.0	212.7	603.5	1148.9	1187.6	1097.2	701.9	267.4	88.5
80°	31.4	31.5	47.2	88.0	258.2	590.4	623.2	531.7	249.5	83.4	20.4
82.5°	13.6	14.3	26.5	46.7	118.6	217.8	234.1	194.9	95.3	56.1	7.5
85°	3.0	3.3	12.9	25.3	48.3	61.2	64.1	63.2	60.7	43.6	3.0
87.5°	0.0	0.0	5.7	9.1	12.2	13.9	12.2	15.9	33.5	29.3	1.6
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°	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
2.5°	330.3	327.5	322.8	317.6	313.8	309.9	306.9	305.5	304.0	302.8	304.2
5°	329.8	324.4	315.0	306.1	299.6	294.4	290.1	288.3	286.6	285.4	285.2
7.5°	335.2	327.5	313.4	300.2	290.2	283.1	277.2	274.7	272.8	271.8	271.1
10°	345.5	335.7	316.7	299.6	286.6	274.6	262.0	252.2	245.8	242.9	241.8
12.5°	358.9	346.7	323.2	302.8	284.0	260.8	234.0	210.8	195.8	190.9	188.0
15°	374.7	359.6	331.7	307.0	274.4	232.1	186.6	156.3	142.4	139.6	136.6
17.5°	389.9	373.1	342.0	307.8	253.5	185.5	136.7	116.2	110.8	112.6	113.1
20°	403.1	386.6	351.9	301.0	215.3	139.2	105.8	100.7	102.7	106.3	106.8
22.5°	416.5	399.5	361.3	283.1	166.5	105.6	95.3	96.5	98.6	102.1	102.7
25°	432.9	415.3	369.9	250.2	124.9	89.9	90.5	92.3	94.4	97.6	97.9
27.5°	451.7	435.2	375.6	207.5	92.7	82.6	84.7	87.4	89.4	92.5	93.2
30°	476.8	461.5	377.5	163.1	77.7	76.1	77.0	80.5	83.4	86.2	86.6
32.5°	500.2	487.4	371.3	123.1	72.0	70.1	70.1	72.1	75.5	78.2	78.8
35°	521.9	513.6	351.5	90.1	67.6	64.6	63.0	63.0	65.2	67.4	67.9
37.5°	550.5	550.1	319.5	71.8	63.4	59.9	56.6	54.2	53.5	53.9	54.2
40°	599.4	599.8	277.9	64.4	59.9	55.1	50.2	45.7	41.5	40.1	40.0
42.5°	675.8	668.9	234.1	60.8	56.8	50.2	42.8	36.8	30.3	28.2	28.1
45°	797.2	756.0	187.8	57.6	53.6	44.6	35.4	27.2	21.9	20.4	20.4
47.5°	974.0	870.4	145.5	54.0	49.3	38.3	26.7	19.7	16.0	15.3	15.5
50°	1156.9	982.6	111.5	49.6	44.1	31.7	19.7	14.3	12.2	12.2	12.4
52.5°	1319.1	1064.8	86.9	44.8	37.5	24.9	15.0	11.1	10.2	10.1	10.2
55°	1470.9	1117.7	66.6	39.2	29.8	18.5	11.5	9.1	8.5	8.2	8.0
57.5°	1617.4	1143.9	49.9	31.7	21.6	13.4	9.1	7.7	7.1	6.6	6.5
60°	1714.8	1122.6	34.3	23.3	15.0	9.7	7.5	6.6	5.9	5.4	5.2
62.5°	1769.8	1064.4	22.1	16.9	10.6	7.3	6.1	5.6	4.5	4.0	4.0
65°	1747.5	968.3	15.5	12.0	7.7	5.4	4.5	4.5	3.3	2.6	2.5
67.5°	1548.6	818.1	11.7	8.9	5.6	4.0	3.4	3.8	2.0	1.2	1.2
69°	1332.4	678.0	10.1	7.5	4.7	3.3	3.0	3.5	1.4	0.9	0.7
70°	1158.0	584.8	9.1	6.5	3.8	2.8	2.6	3.4	1.4	0.7	0.7
72.5°	692.8	326.1	7.0	4.7	2.5	2.1	2.1	3.8	1.4	0.7	0.7
75°	280.0	114.9	5.1	3.3	1.9	1.9	2.6	4.9	1.2	0.7	0.5
77.5°	63.4	25.2	3.0	2.0	1.2	1.9	3.1	3.8	0.7	0.3	0.0
80°	15.5	6.1	1.9	1.2	0.7	1.4	2.3	2.1	0.2	0.0	0.0
82.5°	5.1	2.1	0.7	0.7	0.2	0.5	1.1	0.7	0.0	0.0	0.0
85°	2.1	1.2	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.0	0.0	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)