

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: P382876

Luminaire Tested: **GLEON-SA2B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382876
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-SA2B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7894.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

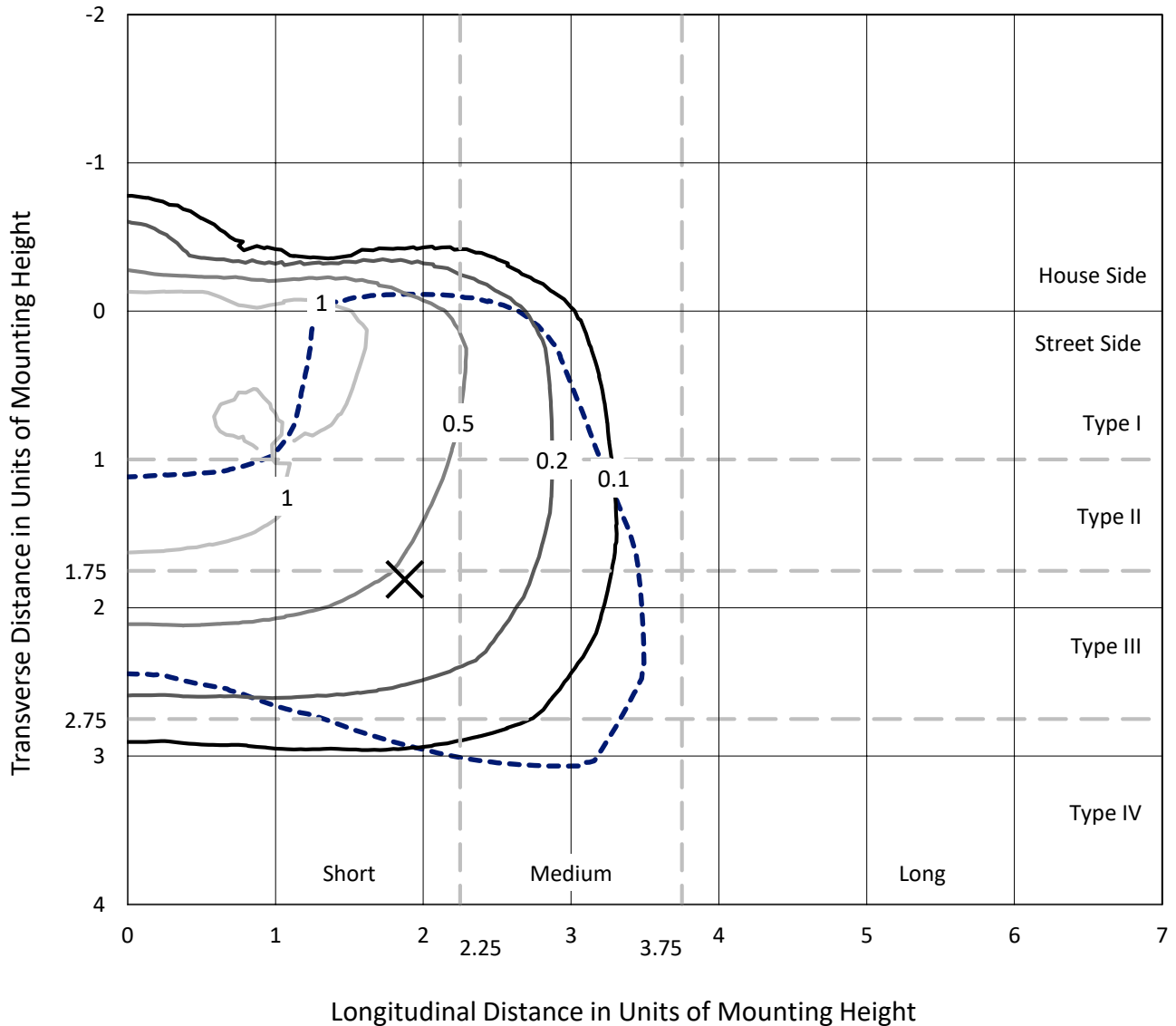
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

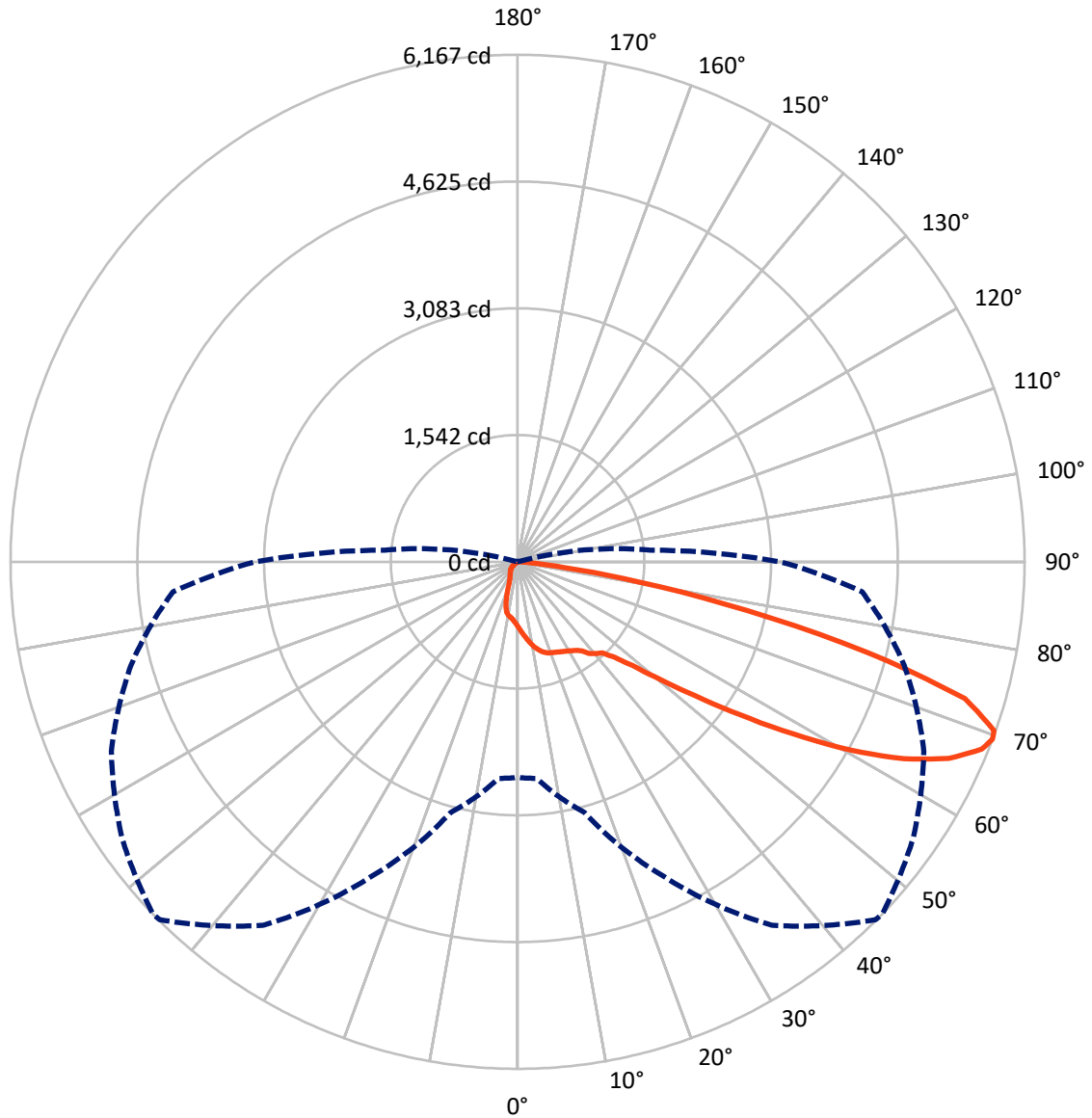
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	810.2	0.0	810.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7084.6	0.0	7084.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	7894.9	0.0	7894.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.0
10°-20°	238.9	3.0
20°-30°	375.7	4.8
30°-40°	538.7	6.8
40°-50°	931.1	11.8
50°-60°	1839.4	23.3
60°-70°	2570.7	32.6
70°-80°	1241.9	15.7
80°-90°	79.8	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°	7894.9	100.0
0°-180°	7894.9	100.0

Coefficient of Utilization

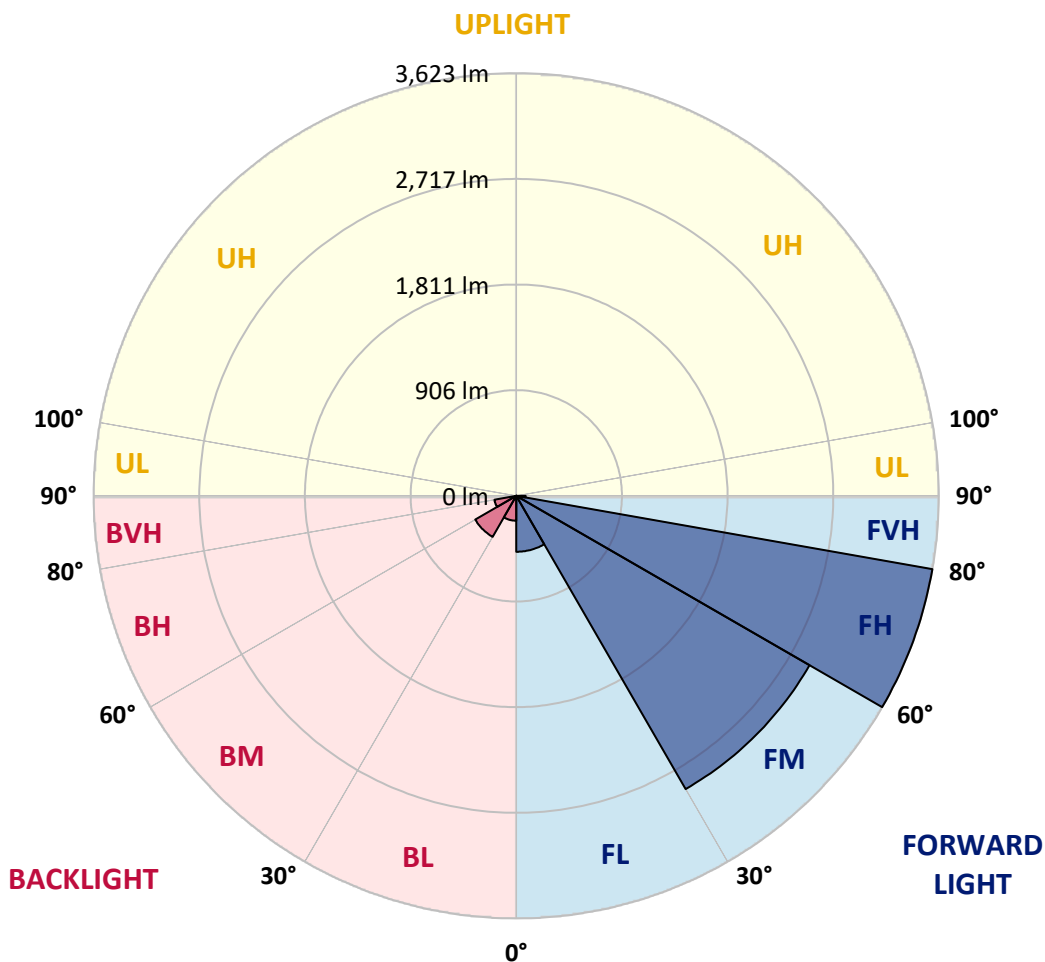


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.7	6.1			
FM (30°-60°)	2903.1	36.8			
FH (60°-80°)	3622.7	45.9			G2/5000
FVH (80°-90°)	79.2	1.0			G1/100
BL (0°-30°)	213.5	2.7	B1/500		
BM (30°-60°)	406.0	5.1	B1/1000		
BH (60°-80°)	190.0	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1
2.5°	878.7	877.6	872.5	870.3	857.7	850.2	847.3	838.0	824.7	811.4	796.6
5°	978.7	978.3	968.7	959.5	935.7	913.6	909.5	888.0	858.0	829.9	801.8
7.5°	1080.9	1076.0	1066.4	1048.6	1014.3	978.7	975.3	945.1	902.5	861.8	821.3
10°	1167.5	1164.5	1152.0	1124.9	1084.6	1044.3	1040.2	1002.8	954.6	904.7	853.2
12.5°	1234.9	1232.6	1215.9	1182.3	1139.4	1097.5	1092.0	1058.7	1007.2	951.3	890.7
15°	1275.9	1274.8	1254.5	1218.6	1176.4	1140.1	1135.3	1106.0	1058.3	999.8	931.4
17.5°	1285.5	1285.9	1264.9	1228.5	1193.8	1167.9	1164.2	1142.0	1101.9	1043.9	972.1
20°	1264.1	1268.6	1249.7	1218.2	1196.8	1183.1	1180.1	1166.8	1133.0	1078.3	1004.6
22.5°	1233.7	1236.0	1223.0	1201.9	1193.0	1195.6	1194.2	1186.7	1158.2	1107.9	1036.8
25°	1215.2	1215.2	1207.5	1189.7	1195.6	1211.6	1211.9	1210.5	1187.8	1144.1	1076.0
27.5°	1214.5	1212.3	1203.4	1190.1	1206.4	1230.8	1232.3	1242.2	1228.2	1188.2	1124.9
30°	1244.1	1241.6	1222.7	1205.2	1226.0	1252.3	1256.0	1277.8	1270.7	1236.0	1179.3
32.5°	1313.3	1304.1	1262.2	1233.7	1249.3	1280.8	1285.5	1320.4	1331.5	1294.9	1231.9
35°	1408.1	1378.9	1318.5	1287.8	1289.3	1322.2	1326.6	1377.8	1410.6	1348.9	1272.6
37.5°	1538.7	1524.3	1426.2	1344.0	1350.7	1400.7	1413.6	1469.1	1459.9	1378.5	1318.9
40°	1825.3	1802.7	1698.3	1501.7	1409.6	1464.4	1468.4	1498.0	1498.8	1445.5	1415.1
42.5°	2215.4	2206.2	2096.3	1787.9	1525.4	1507.0	1514.3	1564.3	1620.2	1586.9	1585.4
45°	2647.4	2642.6	2526.0	2167.7	1759.8	1646.5	1655.7	1722.7	1829.7	1837.1	1884.1
47.5°	2995.0	2992.8	2925.8	2591.5	2118.4	1883.0	1886.0	1957.1	2145.1	2238.0	2313.1
50°	3311.8	3322.6	3269.6	3050.2	2607.0	2253.5	2246.5	2293.9	2595.9	2748.1	2841.4
52.5°	3752.4	3767.6	3619.1	3478.0	3119.8	2713.3	2707.7	2757.4	3137.8	3251.8	3268.5
55°	4141.4	4115.5	3998.1	3957.4	3744.9	3281.1	3279.6	3323.3	3662.0	3710.5	3741.2
57.5°	4313.2	4303.1	4359.7	4453.1	4399.7	3952.2	3948.9	3915.6	4131.0	4136.2	4230.6
60°	4421.6	4433.8	4607.4	4895.0	5027.9	4674.4	4652.9	4449.7	4578.9	4567.5	4668.5
62.5°	4340.2	4364.2	4676.6	5156.0	5498.0	5304.8	5274.4	4939.1	4961.6	4922.0	5016.1
65°	3907.8	3945.2	4457.1	5106.7	5731.3	5797.5	5766.7	5371.0	5265.6	5200.4	5148.2
67.5°	3173.0	3195.2	3729.7	4678.5	5626.1	6091.4	6085.1	5749.7	5495.0	5153.4	4748.5
69°	2622.2	2644.1	3158.6	4227.6	5394.8	6154.3	6166.6	5871.2	5451.4	4867.6	4207.2
70°	2221.0	2244.3	2723.7	3841.1	5126.4	6125.1	6146.9	5859.6	5326.2	4536.7	3732.3
72.5°	1164.9	1184.9	1676.9	2646.2	4179.1	5624.2	5690.5	5364.4	4514.8	3294.8	2206.9
75°	366.1	377.6	654.8	1383.3	2861.3	4373.1	4388.2	4208.0	3206.0	1812.3	919.2
77.5°	139.5	136.2	218.0	509.7	1446.6	2753.7	2846.5	2629.7	1682.4	640.7	212.1
80°	75.2	75.5	113.3	211.0	618.9	1415.1	1493.6	1274.5	597.8	199.9	48.9
82.5°	32.6	34.1	63.6	111.8	284.3	521.9	561.2	467.2	228.4	134.3	18.2
85°	7.0	7.7	30.7	60.7	115.9	146.6	153.6	151.4	145.5	104.4	7.0
87.5°	0.0	0.0	13.7	21.8	29.3	33.3	29.3	38.1	80.3	70.3	3.7
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°	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1	791.1
2.5°	791.8	785.1	773.7	761.1	752.1	742.9	735.5	732.2	728.5	725.9	729.2
5°	790.3	777.4	755.1	733.7	718.1	705.6	695.1	691.1	687.0	684.0	683.7
7.5°	803.3	785.1	751.0	719.6	695.5	678.5	664.5	658.5	653.7	651.5	649.7
10°	828.1	804.8	759.2	718.1	687.0	658.1	627.8	604.5	589.3	582.3	579.7
12.5°	860.3	831.0	774.8	725.9	680.7	625.2	560.8	505.3	469.4	457.5	450.5
15°	898.0	861.8	795.1	735.9	657.8	556.3	447.1	374.6	341.3	334.6	327.3
17.5°	934.2	894.3	819.6	737.7	607.5	444.5	327.6	278.3	265.4	269.9	271.0
20°	966.1	926.5	843.6	721.5	516.0	333.5	253.6	241.4	246.1	254.7	256.2
22.5°	998.3	957.6	865.8	678.5	399.1	253.2	228.4	231.4	236.1	244.7	246.1
25°	1037.6	995.4	886.6	599.6	299.5	215.5	217.0	221.3	226.2	233.9	234.7
27.5°	1082.7	1043.1	900.2	497.2	222.1	198.0	202.9	209.5	214.3	221.7	223.2
30°	1142.7	1106.0	904.7	390.9	186.2	182.5	184.7	192.8	199.9	206.5	207.6
32.5°	1199.0	1168.3	889.9	295.0	172.5	168.1	168.1	172.9	181.0	187.3	188.8
35°	1250.8	1230.8	842.5	215.8	162.1	154.7	151.0	151.0	156.2	161.3	162.8
37.5°	1319.3	1318.5	765.8	172.1	152.1	143.6	135.8	130.0	128.1	129.2	130.0
40°	1436.6	1437.8	666.0	154.4	143.6	132.2	120.3	109.5	99.6	96.2	95.9
42.5°	1619.9	1603.2	561.2	145.9	136.2	120.3	102.6	88.1	72.6	67.7	67.4
45°	1910.8	1812.0	450.1	138.1	128.5	106.9	84.8	65.1	52.5	48.9	48.9
47.5°	2334.6	2086.2	348.7	129.6	118.1	91.8	64.0	47.0	38.5	36.6	37.0
50°	2772.8	2355.0	267.3	118.9	105.5	75.9	47.4	34.1	29.3	29.3	29.6
52.5°	3161.6	2551.9	208.4	107.3	90.0	59.6	35.9	26.6	24.4	24.0	24.4
55°	3525.4	2678.9	159.6	94.0	71.4	44.4	27.4	21.8	20.4	19.7	19.3
57.5°	3876.4	2741.8	119.5	75.9	51.8	32.2	21.8	18.5	17.0	15.9	15.6
60°	4109.9	2690.7	82.2	55.9	35.9	23.3	18.2	15.9	14.1	12.9	12.6
62.5°	4241.7	2551.1	52.9	40.3	25.5	17.4	14.4	13.3	10.7	9.6	9.6
65°	4188.4	2321.0	37.0	28.9	18.5	12.9	10.7	10.7	7.7	6.3	6.0
67.5°	3711.7	1960.7	28.1	21.4	13.3	9.6	8.1	9.2	4.8	3.0	3.0
69°	3193.3	1625.0	24.0	17.8	11.1	7.7	7.0	8.5	3.4	2.2	1.9
70°	2775.5	1401.8	21.8	15.6	9.2	6.7	6.3	8.1	3.4	1.9	1.5
72.5°	1660.6	781.8	16.7	11.1	6.0	5.2	5.2	9.2	3.4	1.9	1.5
75°	671.1	275.4	12.2	7.7	4.5	4.5	6.3	11.8	3.0	1.5	1.1
77.5°	152.1	60.4	7.0	4.8	3.0	4.5	7.4	9.2	1.9	0.7	0.0
80°	37.0	14.8	4.5	3.0	1.9	3.4	5.6	5.2	0.4	0.0	0.0
82.5°	12.2	5.2	1.9	1.5	0.4	1.1	2.6	1.5	0.0	0.0	0.0
85°	5.2	3.0	0.7	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.4	1.1	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)