

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: P522652

Luminaire Tested: **GALN-SA2A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8573 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

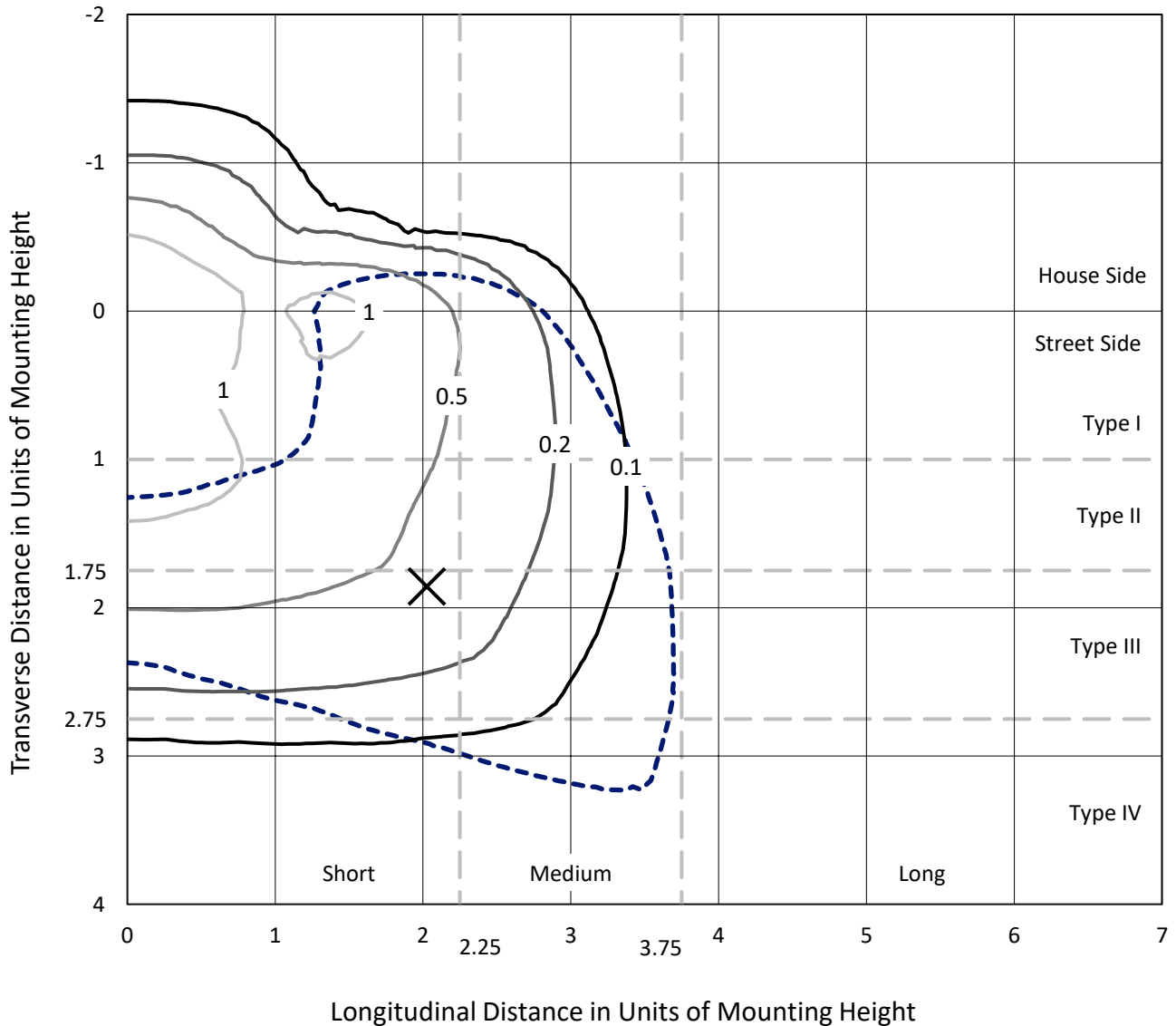
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

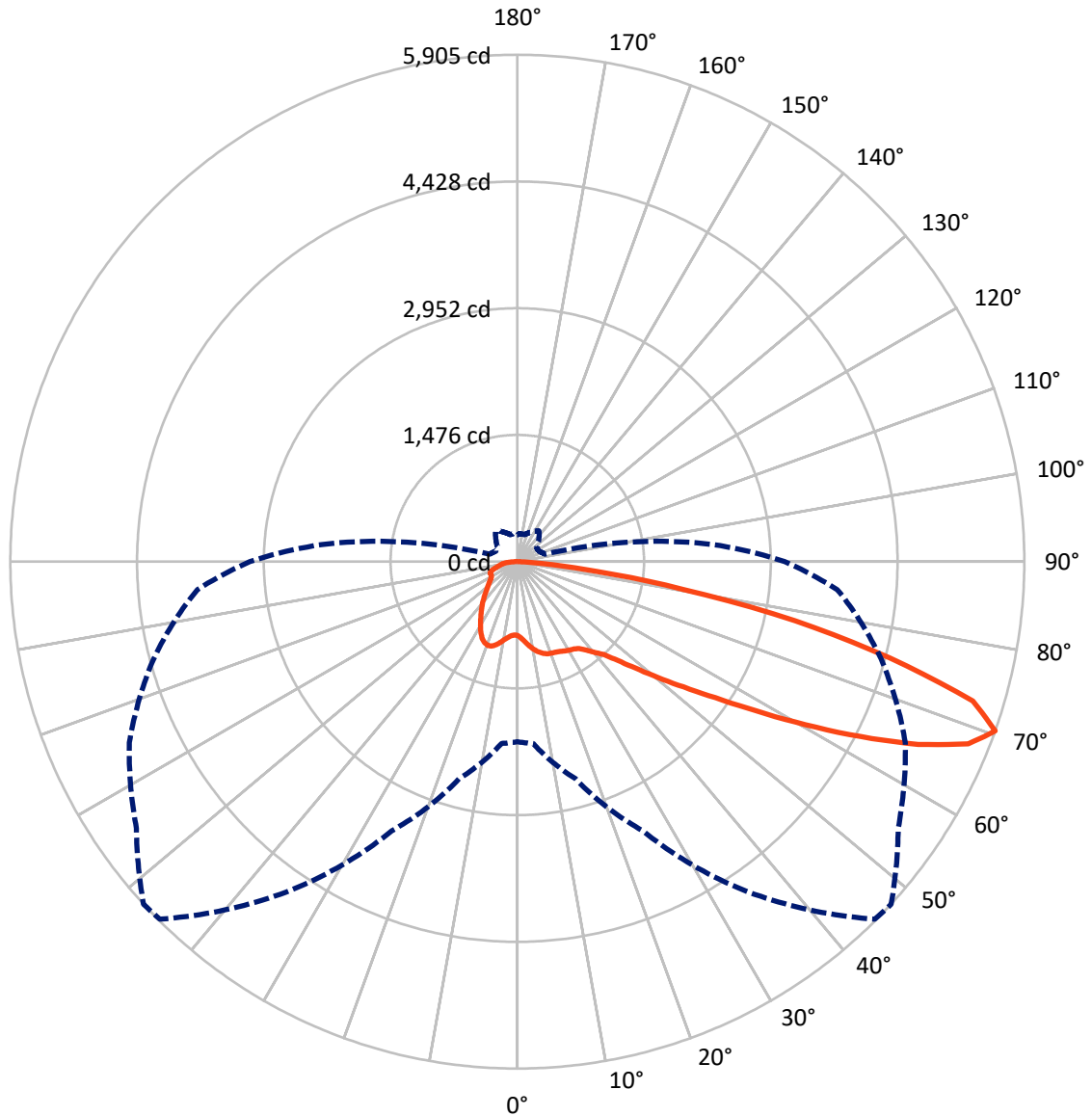
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1941.1	0.0	1941.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6631.9	0.0	6631.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	8573.0	0.0	8573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.0
10°-20°	296.6	3.5
20°-30°	493.2	5.8
30°-40°	699.0	8.2
40°-50°	1031.9	12.0
50°-60°	1787.3	20.8
60°-70°	2524.7	29.4
70°-80°	1451.3	16.9
80°-90°	200.2	2.3
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°	8573.0	100.0
0°-180°	8573.0	100.0



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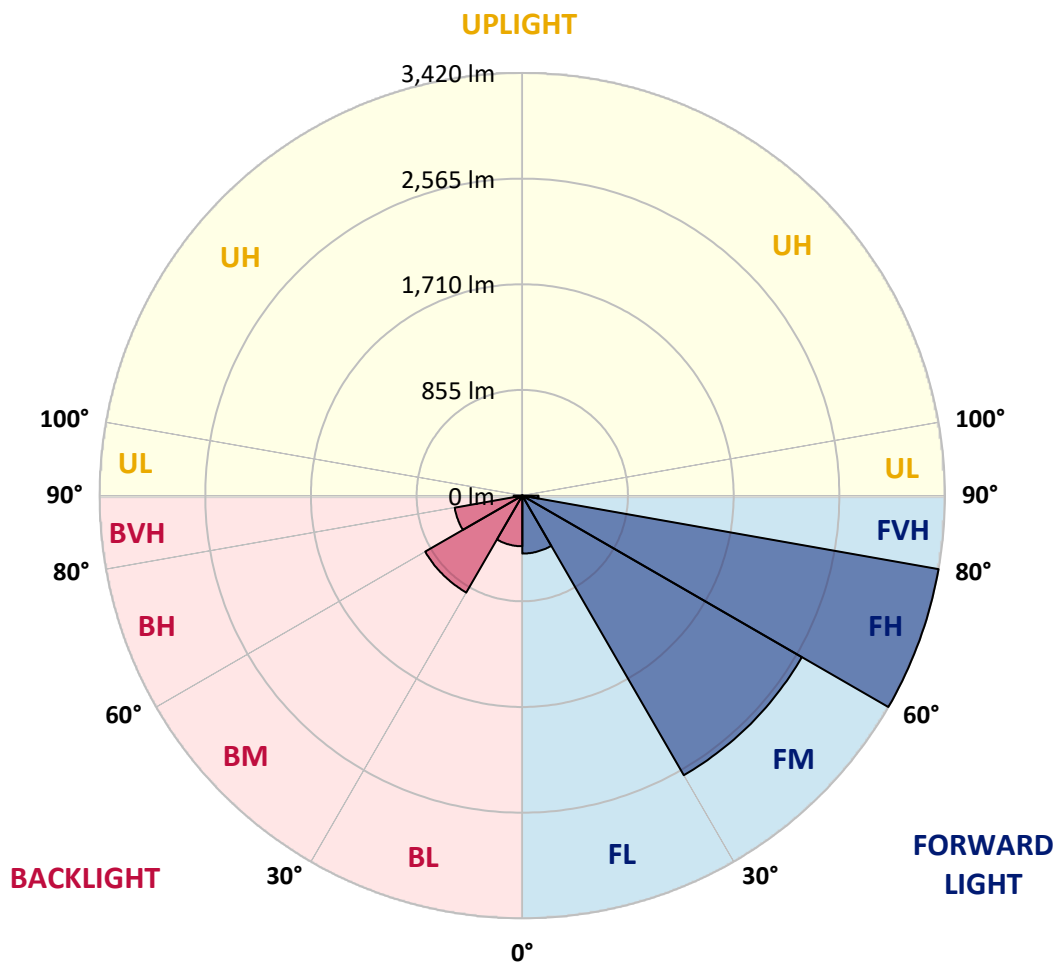
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.8	5.5			
FM	(30°-60°)	2612.0	30.5			
FH	(60°-80°)	3420.3	39.9			G2/5000
FVH	(80°-90°)	130.8	1.5			G2/225
BL	(0°-30°)	409.7	4.8	B1/500		
BM	(30°-60°)	906.3	10.6	B1/1000		
BH	(60°-80°)	555.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	69.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6
2.5°	916.1	912.9	912.5	905.6	901.9	895.0	892.3	885.9	878.1	870.3	862.9
5°	988.2	988.2	984.9	975.3	960.2	944.6	937.7	925.3	903.3	885.4	870.3
7.5°	1062.0	1062.9	1056.5	1042.3	1020.7	995.5	989.1	970.7	939.5	913.4	890.9
10°	1125.8	1125.8	1117.1	1097.8	1070.7	1043.2	1036.8	1016.1	981.3	948.7	919.3
12.5°	1174.4	1174.4	1162.9	1137.7	1108.4	1083.6	1076.2	1056.5	1023.9	987.7	950.5
15°	1206.1	1203.8	1190.9	1162.5	1134.0	1112.5	1107.4	1090.9	1061.1	1024.4	982.7
17.5°	1207.4	1206.5	1194.1	1170.3	1145.5	1130.8	1127.6	1116.6	1093.2	1058.3	1014.3
20°	1180.8	1182.7	1174.4	1157.4	1145.5	1139.1	1137.7	1134.0	1117.5	1085.0	1040.9
22.5°	1152.4	1155.6	1147.8	1138.6	1137.7	1144.1	1145.1	1146.0	1135.4	1103.8	1063.4
25°	1145.5	1147.8	1140.0	1131.8	1136.8	1153.8	1157.4	1161.1	1152.9	1126.2	1090.0
27.5°	1180.4	1178.5	1163.4	1145.5	1148.7	1171.7	1176.7	1180.8	1176.7	1153.8	1123.0
30°	1279.0	1273.0	1242.8	1190.5	1174.0	1190.0	1195.1	1206.5	1206.5	1189.6	1158.8
32.5°	1444.2	1432.7	1377.2	1274.4	1217.1	1207.4	1212.5	1231.3	1240.9	1227.6	1194.1
35°	1644.6	1632.7	1553.3	1415.3	1296.0	1242.3	1240.9	1262.0	1287.7	1257.9	1214.3
37.5°	1846.0	1833.6	1738.2	1583.2	1411.1	1315.7	1307.5	1314.8	1325.8	1271.2	1242.3
40°	2047.4	2032.7	1949.3	1770.8	1552.0	1413.0	1391.4	1358.4	1353.8	1314.8	1296.4
42.5°	2247.0	2233.7	2191.5	1981.4	1720.8	1507.9	1474.9	1418.0	1435.4	1412.1	1396.0
45°	2448.4	2449.3	2404.3	2217.6	1924.5	1683.2	1638.7	1549.7	1591.0	1582.2	1591.4
47.5°	2626.8	2624.5	2608.5	2447.0	2177.3	1908.9	1851.5	1748.3	1819.0	1851.1	1921.3
50°	2799.8	2798.4	2799.3	2707.1	2470.9	2177.3	2113.9	2005.7	2164.9	2276.3	2402.0
52.5°	3047.5	3055.3	2999.8	2975.5	2827.8	2494.3	2424.5	2312.6	2573.6	2749.3	2994.8
55°	3296.2	3289.7	3246.2	3271.4	3201.2	2869.5	2796.6	2707.6	3028.7	3220.9	3589.8
57.5°	3442.5	3444.8	3489.3	3612.7	3662.2	3337.4	3271.4	3202.6	3540.2	3676.5	4119.2
60°	3574.2	3584.7	3712.7	3945.8	4080.2	3912.3	3853.5	3786.6	4009.5	4063.7	4578.8
62.5°	3615.5	3648.0	3871.4	4220.1	4487.6	4561.0	4488.0	4340.3	4456.4	4435.3	4890.3
65°	3409.5	3454.0	3854.5	4322.9	4851.3	5176.6	5130.3	4855.9	4837.1	4710.0	4941.3
67.5°	2867.2	2911.7	3426.0	4107.2	5001.8	5709.7	5663.3	5232.1	5068.3	4735.7	4555.9
70°	2097.9	2125.9	2617.7	3458.1	4699.5	5888.6	5904.6	5415.6	4985.8	4386.6	3740.7
72.5°	1208.8	1270.8	1615.3	2432.8	3839.3	5436.3	5547.7	5033.9	4463.7	3659.5	2615.4
75°	519.8	521.1	746.9	1341.9	2600.2	4369.6	4477.5	4172.8	3505.4	2530.5	1396.5
77.5°	247.3	251.9	328.5	599.1	1431.3	3019.1	3309.9	2948.0	2241.9	1215.7	527.6
80°	160.6	163.8	200.9	297.3	701.9	1750.6	1953.4	1700.6	989.1	434.4	227.5
82.5°	97.3	98.2	134.4	181.7	386.3	792.7	934.5	738.1	422.1	260.1	134.0
85°	59.2	59.6	81.7	112.4	234.4	273.9	281.2	278.9	247.7	170.2	71.6
87.5°	28.4	29.4	42.2	53.2	92.2	84.9	80.3	93.1	117.0	91.8	30.7
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°	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6
2.5°	859.7	858.3	855.1	853.7	852.8	853.3	852.8	852.8	853.3	853.3	853.3
5°	863.8	861.5	856.5	856.5	859.2	865.7	871.6	876.2	881.3	880.8	880.8
7.5°	881.7	877.6	871.6	873.5	880.4	890.4	901.0	911.1	921.2	922.1	921.6
10°	907.9	903.7	897.3	899.6	910.6	925.8	939.1	953.8	964.8	968.0	967.1
12.5°	937.7	929.4	923.9	930.4	947.8	968.0	980.8	991.8	999.6	1004.2	1002.4
15°	968.0	960.2	953.8	967.1	988.2	1007.0	1013.4	1015.2	1016.6	1021.2	1020.3
17.5°	997.3	986.8	984.5	1001.9	1022.1	1030.4	1026.7	1018.9	1012.9	1016.6	1016.1
20°	1023.5	1015.2	1014.3	1031.7	1039.5	1031.7	1016.1	1002.4	991.8	992.7	992.3
22.5°	1048.3	1041.8	1042.8	1050.1	1037.7	1011.1	985.4	966.6	955.1	957.4	958.8
25°	1075.8	1069.4	1071.7	1059.7	1018.9	972.6	935.4	919.3	914.8	919.3	922.6
27.5°	1111.6	1107.4	1106.1	1060.2	985.4	915.7	873.5	867.5	871.6	881.7	886.8
30°	1150.1	1150.1	1142.8	1052.4	939.5	847.3	810.6	811.5	825.8	840.0	845.0
32.5°	1187.3	1195.1	1172.1	1031.3	880.4	780.8	752.8	753.7	766.1	783.6	788.1
35°	1218.0	1240.5	1197.4	992.7	810.6	724.8	703.7	691.3	691.8	705.1	708.8
37.5°	1260.2	1301.9	1212.0	935.4	736.3	677.1	653.3	631.7	617.5	612.0	612.0
40°	1333.6	1395.1	1215.7	850.5	666.1	631.7	597.8	572.1	544.5	519.8	515.2
42.5°	1457.9	1535.5	1208.4	752.8	602.8	581.7	548.7	517.0	478.9	444.1	441.3
45°	1678.1	1718.0	1188.6	651.4	546.4	533.5	501.4	467.0	426.6	395.4	393.2
47.5°	2030.9	1974.5	1162.5	561.5	495.0	491.3	466.6	426.6	386.3	364.7	362.4
50°	2546.1	2378.2	1158.8	496.4	453.7	455.5	435.4	398.7	363.3	345.4	342.7
52.5°	3166.3	2865.8	1183.1	450.5	417.5	424.3	414.3	380.3	349.1	334.0	331.2
55°	3768.2	3304.4	1197.8	414.7	383.5	396.4	397.7	369.3	340.9	325.7	323.9
57.5°	4256.8	3634.7	1132.7	382.1	354.2	373.9	384.0	362.9	336.7	325.3	323.4
60°	4596.7	3790.7	947.3	353.2	332.6	356.0	378.9	363.3	346.8	348.2	349.1
62.5°	4705.0	3721.4	710.6	331.7	317.9	350.0	387.2	382.1	365.2	375.7	377.6
65°	4525.6	3435.2	515.2	314.7	305.1	354.2	412.0	395.9	358.7	366.5	366.5
67.5°	3925.1	2959.4	401.0	299.1	290.4	362.0	436.7	394.5	343.6	352.8	344.5
70°	3113.6	2289.2	334.0	281.7	274.8	350.5	439.0	380.3	325.7	327.6	312.0
72.5°	2066.2	1505.2	287.2	265.2	250.9	315.2	420.2	362.0	308.3	297.7	282.1
75°	1012.5	750.5	250.5	244.5	219.7	274.3	394.5	344.5	289.5	273.0	264.2
77.5°	392.2	319.3	213.8	218.4	191.3	241.8	360.6	319.8	264.7	242.2	235.3
80°	190.4	181.2	175.2	182.1	157.4	206.0	329.4	298.2	241.8	217.0	206.9
82.5°	118.4	111.9	134.4	141.8	121.1	188.1	312.4	279.8	212.9	179.8	171.6
85°	60.1	64.2	89.9	96.8	86.7	149.6	257.4	210.1	153.7	127.5	128.5
87.5°	22.9	30.7	47.3	50.9	46.3	78.9	141.8	122.5	98.6	67.0	61.9
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)