

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: P458553

Luminaire Tested: **GALN-SA1B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5250 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

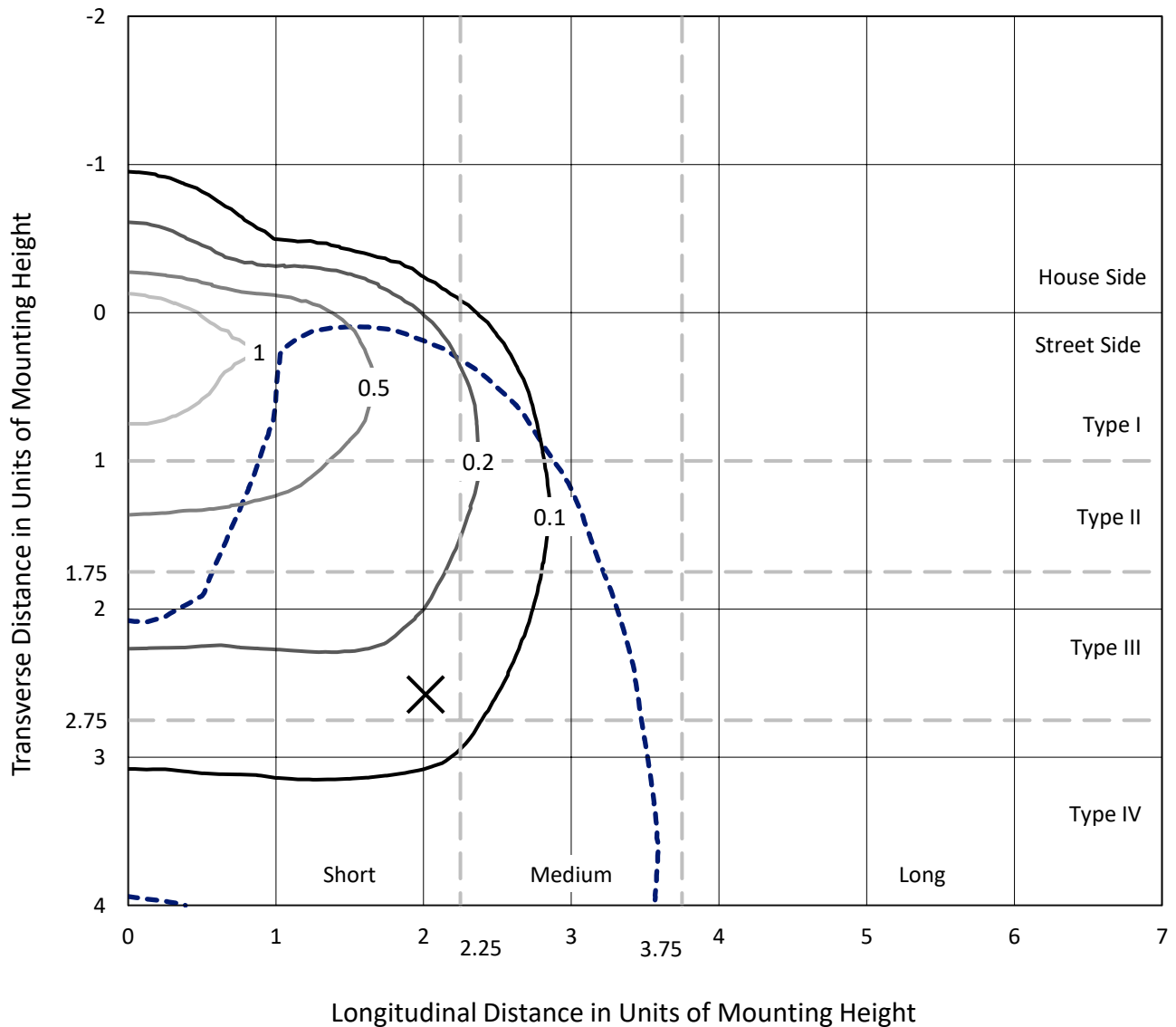
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

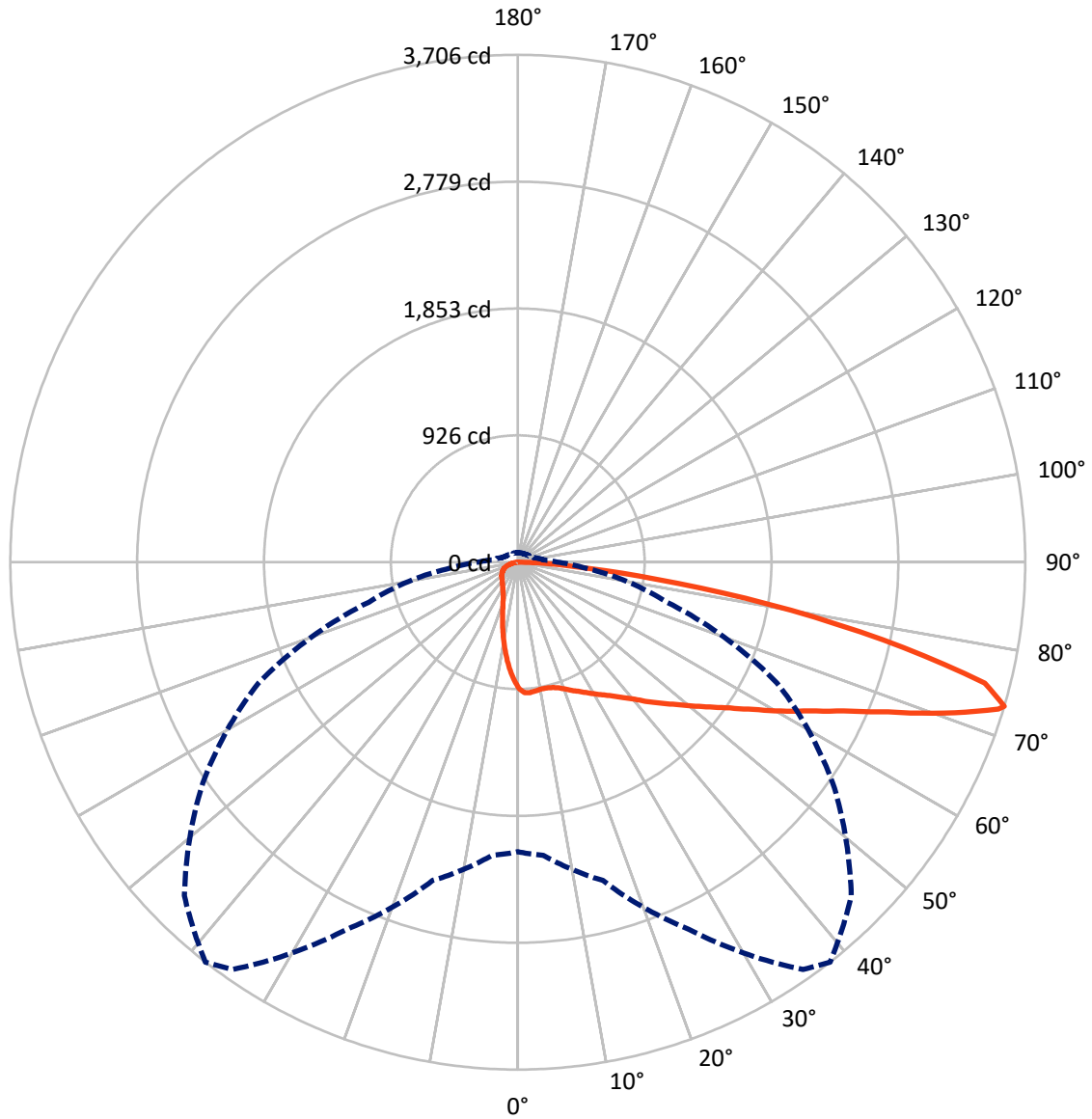
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.8	0.0	705.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4544.2	0.0	4544.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5250.0	0.0	5250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.5
10°-20°	206.5	3.9
20°-30°	321.5	6.1
30°-40°	471.5	9.0
40°-50°	699.5	13.3
50°-60°	991.0	18.9
60°-70°	1257.2	23.9
70°-80°	1046.5	19.9
80°-90°	175.8	3.3
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°	5250.0	100.0
0°-180°	5250.0	100.0

Coefficient of Utilization



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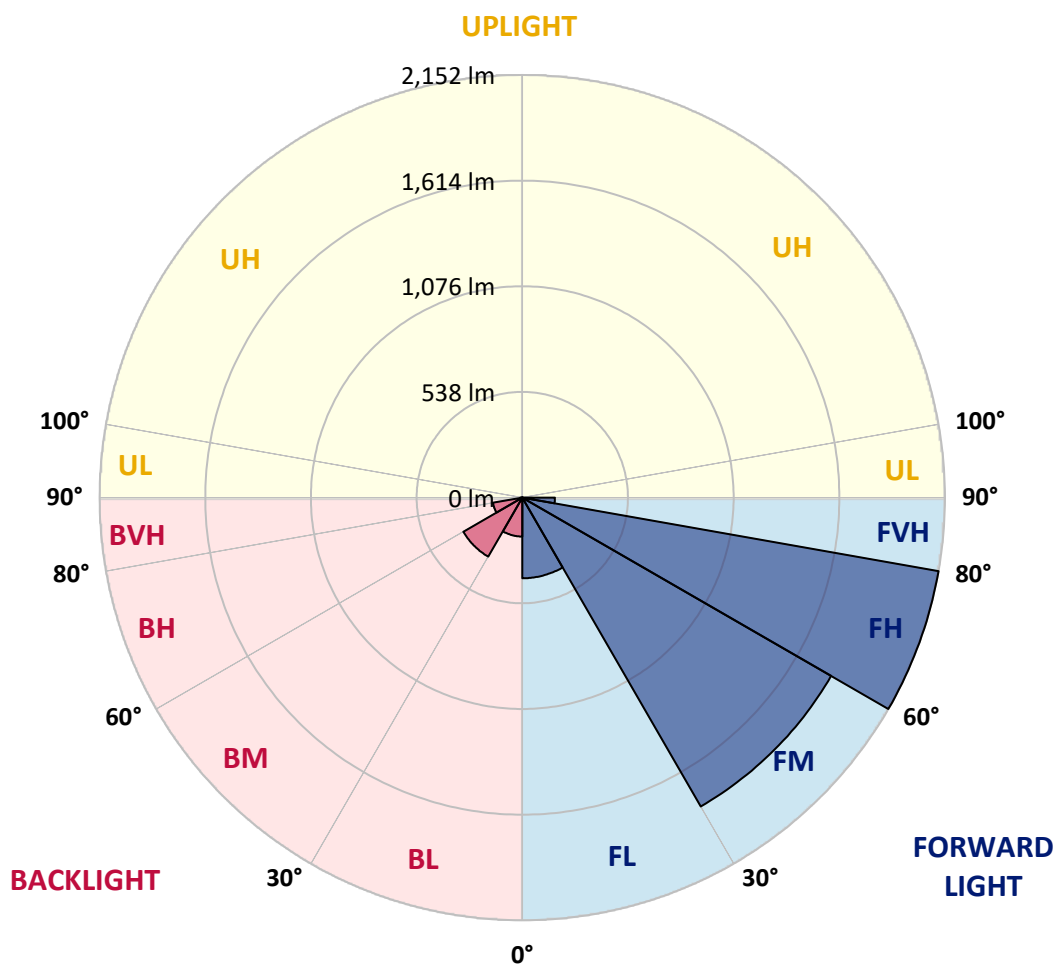
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.4	7.8			
FM (30°-60°)	1815.6	34.6			
FH (60°-80°)	2152.0	41.0			G2/5000
FVH (80°-90°)	166.3	3.2			G2/225
BL (0°-30°)	198.0	3.8	B1/500		
BM (30°-60°)	346.5	6.6	B1/1000		
BH (60°-80°)	151.7	2.9	B1/500		G1/500
BVH (80°-90°)	9.5	0.2			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°	38°	45°	55°	65°	75°	85°
0°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	959.4	964.1	961.8	958.5	956.4	954.4	951.4	942.8	936.0	928.6	917.0
5°	966.5	969.5	967.4	963.2	958.5	956.4	950.8	939.5	928.6	916.1	898.9
7.5°	962.4	963.5	961.2	956.1	952.0	948.1	941.6	929.2	915.8	900.7	878.2
10°	947.5	952.0	952.0	947.8	943.7	941.6	935.1	923.2	911.1	893.9	867.2
12.5°	935.4	940.1	944.0	942.8	942.5	942.5	937.5	928.6	914.3	898.0	866.3
15°	927.1	932.7	941.0	945.8	948.7	949.6	947.5	939.8	925.3	906.3	869.9
17.5°	925.3	932.1	947.2	957.6	965.3	965.0	964.4	953.8	937.8	918.2	874.3
20°	933.3	942.2	963.2	979.6	990.8	988.7	985.5	971.6	952.9	930.9	878.5
22.5°	957.3	966.5	989.6	1007.4	1018.4	1018.4	1008.6	990.2	970.4	945.8	884.1
25°	991.7	1001.8	1026.4	1044.5	1049.5	1045.7	1035.9	1013.7	990.8	967.1	895.9
27.5°	1033.8	1046.0	1068.8	1083.9	1082.4	1079.5	1069.4	1040.9	1018.1	996.5	916.1
30°	1086.3	1095.2	1118.9	1122.5	1117.1	1116.5	1102.3	1073.8	1052.5	1035.9	944.9
32.5°	1135.8	1143.8	1162.8	1164.3	1154.8	1156.0	1142.6	1116.5	1104.4	1098.4	993.2
35°	1188.3	1192.4	1208.7	1207.0	1200.7	1199.8	1194.5	1169.6	1173.5	1184.1	1061.7
37.5°	1232.2	1240.5	1249.6	1251.1	1250.8	1253.8	1257.4	1245.5	1267.7	1301.2	1151.5
40°	1272.5	1279.6	1293.2	1298.0	1309.5	1315.5	1327.6	1327.9	1379.2	1434.3	1262.1
42.5°	1299.7	1311.9	1337.4	1346.0	1374.2	1392.0	1410.0	1429.3	1503.7	1574.6	1392.5
45°	1323.5	1339.5	1381.9	1408.6	1446.8	1468.4	1506.7	1547.0	1654.0	1746.8	1525.1
47.5°	1359.3	1373.6	1422.2	1469.3	1527.1	1552.1	1609.3	1669.5	1809.4	1911.1	1652.0
50°	1409.1	1417.7	1467.3	1544.0	1617.9	1649.9	1725.5	1812.4	1975.4	2073.3	1763.4
52.5°	1472.9	1476.4	1515.9	1618.2	1715.4	1755.1	1855.3	1956.7	2120.7	2214.1	1851.8
55°	1548.2	1542.3	1573.1	1696.7	1826.9	1878.8	1986.4	2102.9	2284.0	2327.9	1916.1
57.5°	1622.6	1613.4	1638.0	1792.2	1964.4	2027.0	2152.4	2253.5	2429.9	2434.4	1961.2
60°	1701.5	1694.7	1724.0	1904.3	2133.1	2207.3	2323.2	2409.8	2571.0	2508.5	1968.3
62.5°	1782.4	1771.4	1813.2	2030.3	2323.2	2390.5	2502.8	2575.8	2709.5	2536.1	1899.8
65°	1861.0	1855.9	1920.6	2180.0	2539.6	2616.1	2725.2	2774.7	2820.4	2494.5	1729.9
67.5°	1944.6	1954.7	2057.8	2379.8	2821.9	2917.9	3035.6	2989.1	2852.1	2298.0	1456.9
70°	2072.1	2078.6	2238.1	2641.6	3185.6	3301.6	3358.5	3065.3	2699.1	1924.7	1095.2
72.5°	2126.9	2155.7	2399.1	2916.4	3598.9	3669.8	3467.0	2895.4	2248.5	1307.5	575.5
73°	2114.8	2149.2	2406.5	2958.2	3631.2	3705.7	3443.9	2807.9	2090.2	1126.0	493.3
75°	1963.3	2005.7	2310.1	2923.3	3568.4	3523.9	3072.1	2393.2	1412.4	512.0	224.7
77.5°	1549.1	1561.2	1830.4	2360.5	2810.0	2727.6	2299.2	1495.7	576.9	190.3	127.5
80°	777.1	821.8	1031.7	1352.2	1879.1	1852.1	1451.2	707.4	240.4	111.8	84.5
82.5°	373.9	405.6	502.5	659.4	1038.3	1013.7	718.7	386.6	152.7	65.2	49.8
85°	240.7	264.5	319.9	314.6	426.9	407.7	322.9	292.6	90.4	34.1	34.7
87.5°	158.9	174.0	208.7	166.9	155.4	140.5	142.6	164.8	17.8	13.0	4.7
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°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	912.3	908.4	895.7	883.2	871.3	860.1	852.7	842.9	836.4	838.1	840.8
5°	889.4	880.8	858.3	836.4	815.6	791.0	771.1	755.1	743.0	738.5	737.6
7.5°	865.4	850.9	818.6	780.9	745.6	715.1	679.8	662.3	641.9	634.8	632.4
10°	850.9	831.3	786.0	733.5	680.4	629.7	591.5	560.3	532.2	526.8	524.2
12.5°	846.7	820.9	759.9	692.3	621.7	559.4	502.8	461.9	434.6	428.4	419.2
15°	844.4	812.3	735.6	650.8	561.2	485.3	425.7	378.0	353.1	336.5	336.8
17.5°	842.3	802.6	708.3	605.4	509.0	421.6	355.8	312.8	290.0	281.1	280.2
20°	839.3	791.0	676.9	557.7	449.5	363.5	303.9	271.9	256.5	249.0	248.7
22.5°	838.1	779.7	646.0	509.0	396.7	318.7	269.5	247.0	237.2	232.1	232.1
25°	841.1	771.7	613.7	462.8	349.8	280.5	245.8	230.4	224.7	222.1	221.2
27.5°	850.3	768.2	581.7	416.5	306.9	254.4	229.8	219.1	214.9	212.9	213.2
30°	867.8	767.9	550.3	370.9	274.8	234.5	217.0	209.6	206.3	205.2	204.9
32.5°	895.9	774.4	519.4	333.2	247.9	217.9	205.2	199.8	198.3	197.5	197.2
35°	943.7	792.8	488.9	298.8	227.1	203.1	193.9	191.2	189.2	190.0	190.3
37.5°	1008.0	824.5	459.8	271.9	211.4	192.1	184.4	182.0	180.9	181.7	182.6
40°	1094.3	870.2	435.5	250.2	200.1	182.9	176.1	174.0	172.8	174.3	174.6
42.5°	1189.5	922.9	415.4	233.3	190.9	175.2	168.7	166.3	165.4	166.3	166.6
45°	1287.3	984.3	405.0	221.2	183.2	169.6	162.8	160.1	158.0	157.4	158.3
47.5°	1383.7	1037.7	404.7	213.8	177.0	164.5	157.1	154.2	151.5	150.0	149.7
50°	1462.2	1080.1	411.8	210.5	171.7	158.9	151.5	148.5	145.0	142.0	142.6
52.5°	1521.5	1107.6	415.1	209.0	168.7	153.0	145.6	142.9	138.8	134.9	134.9
55°	1559.8	1114.2	407.1	207.5	166.3	146.8	138.8	136.4	132.2	128.4	128.4
57.5°	1572.8	1094.0	378.3	204.0	164.0	141.4	131.9	129.9	126.6	122.7	122.1
60°	1542.6	1025.8	327.9	193.3	159.2	135.8	124.5	123.6	122.4	119.2	118.9
62.5°	1426.0	881.1	273.1	179.4	151.2	129.9	117.7	119.2	120.1	118.3	118.0
65°	1232.2	715.4	233.3	160.1	140.5	121.6	110.3	114.1	116.5	116.5	115.9
67.5°	999.4	549.4	196.6	143.5	127.2	110.3	102.0	105.0	106.7	106.1	107.6
70°	710.4	372.1	160.1	124.5	110.3	97.5	91.3	91.3	90.1	89.5	89.5
72.5°	344.5	212.6	129.9	104.1	94.0	83.3	78.3	76.2	73.8	73.5	72.0
73°	287.9	190.6	123.9	100.2	90.1	81.2	75.6	72.3	70.9	69.7	69.4
75°	175.2	144.7	103.5	84.5	76.8	70.0	64.9	62.0	60.5	59.6	59.3
77.5°	115.3	107.9	80.3	64.6	58.7	54.6	52.5	49.5	48.6	47.4	47.4
80°	86.0	82.4	57.5	45.7	42.1	38.5	37.9	37.4	35.0	33.5	32.9
82.5°	55.4	58.7	39.1	30.5	26.7	23.7	24.0	24.9	22.5	20.5	19.9
85°	39.4	42.4	23.7	13.9	11.3	9.8	11.0	9.8	10.1	8.0	6.5
87.5°	6.5	11.3	4.2	1.8	0.9	0.6	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)