

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: P526581

Luminaire Tested: **GALN-SA1C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

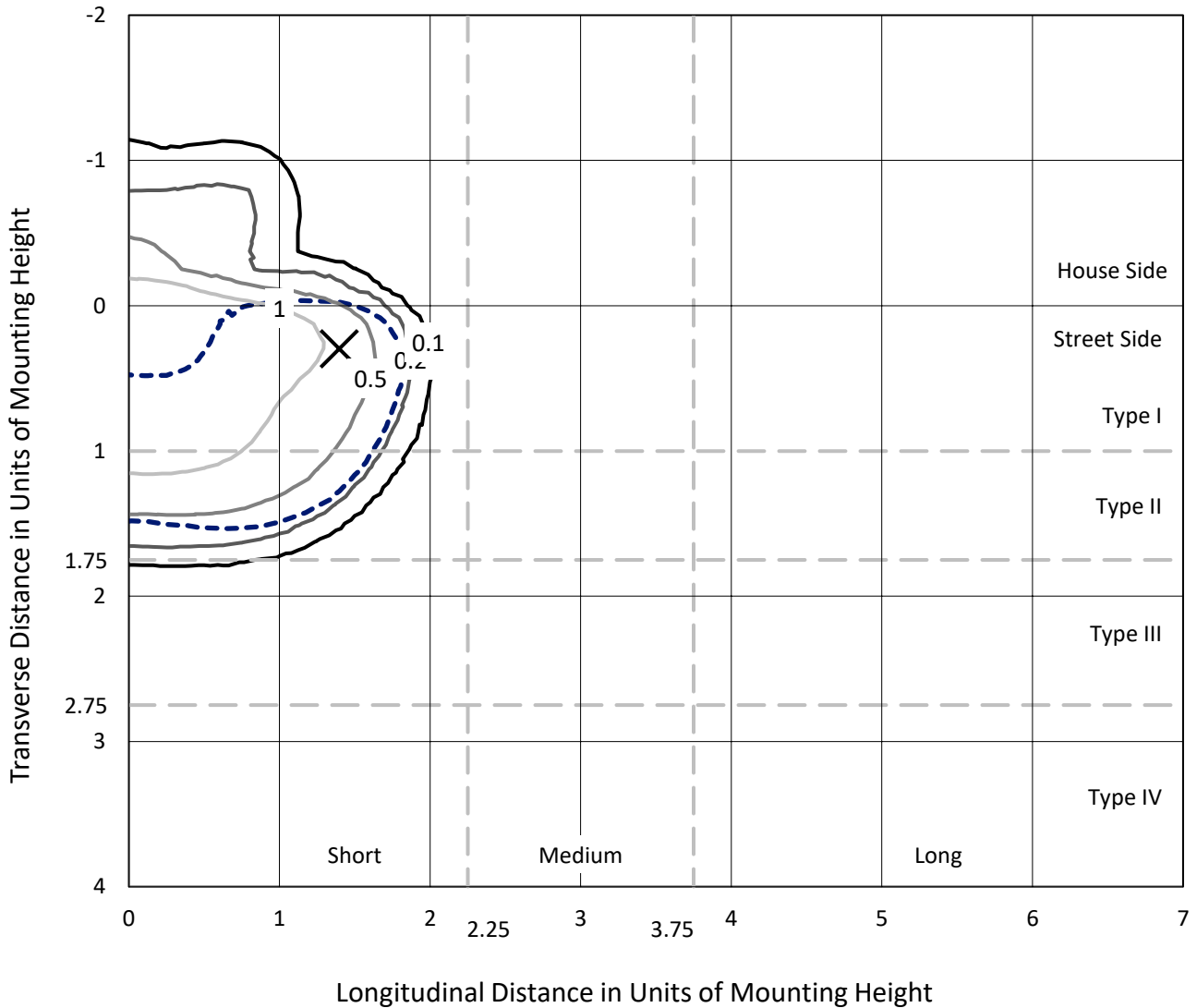
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

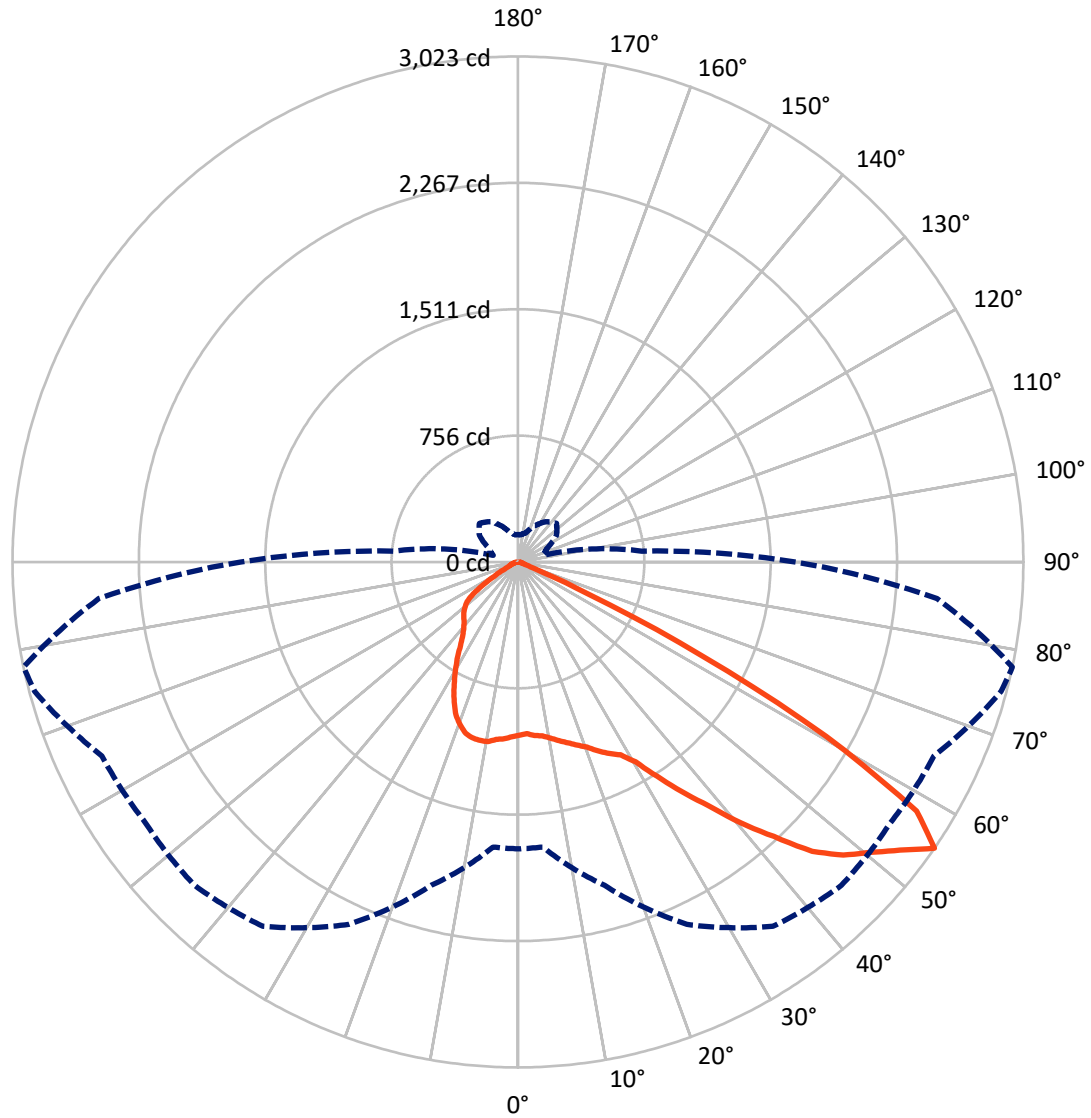
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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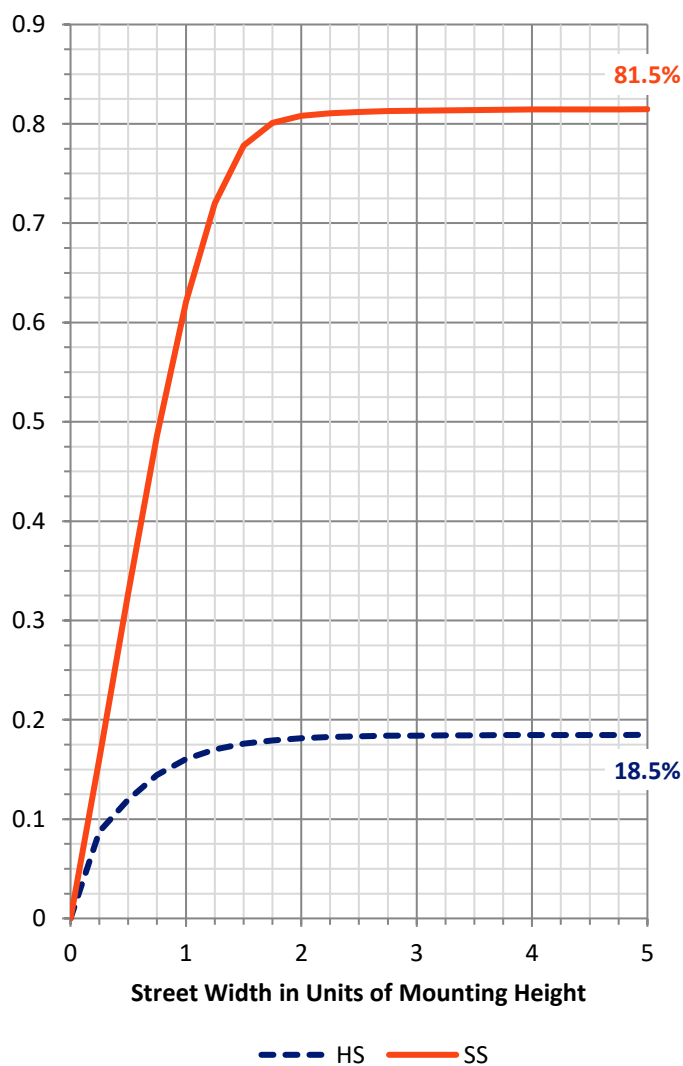
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.5	0.0	748.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3281.5	0.0	3281.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	4030.0	0.0	4030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	2.3
10°-20°	244.5	6.1
20°-30°	428.6	10.6
30°-40°	706.7	17.5
40°-50°	1028.3	25.5
50°-60°	1165.2	28.9
60°-70°	333.1	8.3
70°-80°	25.9	0.6
80°-90°	5.4	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°	4030.0	100.0
0°-180°	4030.0	100.0

Coefficient of Utilization



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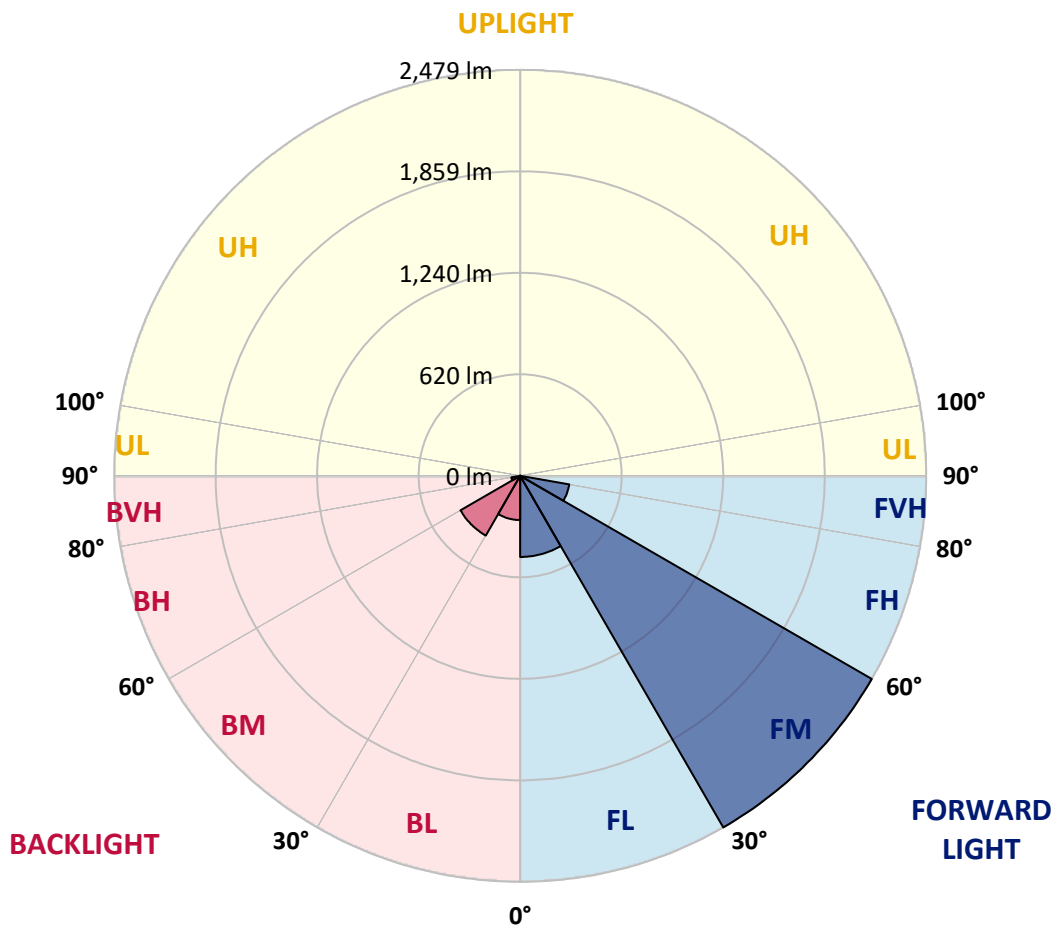
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.4	12.3			
FM (30°-60°)	2479.1	61.5			
FH (60°-80°)	304.4	7.6			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	270.1	6.7	B1/500		
BM (30°-60°)	421.1	10.4	B1/1000		
BH (60°-80°)	54.6	1.4	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	974.2	983.5	985.0	996.5	995.8	1015.2	1021.0	1021.7	1034.7	1028.2	1044.8
5°	946.8	941.7	939.6	959.7	965.5	982.8	997.2	1005.9	1032.5	1041.9	1059.2
7.5°	922.3	922.3	923.7	941.7	939.6	961.9	977.0	1003.7	1042.6	1050.5	1071.4
10°	898.5	889.8	900.7	919.4	935.2	945.3	977.0	1002.3	1047.6	1070.7	1099.5
12.5°	886.2	890.6	892.0	905.7	923.0	953.3	970.5	1012.3	1083.7	1097.4	1128.3
15°	963.3	954.7	933.8	921.6	936.0	950.4	993.6	1036.1	1102.4	1121.9	1156.4
17.5°	1052.7	1045.5	1028.2	995.0	962.6	989.3	1023.1	1062.1	1122.6	1151.4	1202.6
20°	1169.4	1157.9	1140.6	1075.7	1047.6	1018.8	1054.8	1101.0	1155.7	1181.7	1234.3
22.5°	1308.5	1308.5	1269.6	1191.0	1132.7	1105.3	1120.4	1147.1	1192.5	1227.8	1279.7
25°	1453.3	1449.0	1413.7	1332.3	1233.5	1201.1	1218.4	1237.1	1249.4	1268.8	1303.4
27.5°	1619.0	1593.8	1549.1	1459.1	1371.9	1309.2	1327.9	1311.4	1296.2	1306.3	1356.0
30°	1731.4	1747.3	1690.4	1603.9	1521.7	1451.9	1455.5	1441.1	1371.9	1386.3	1415.8
32.5°	1848.1	1858.2	1826.5	1779.0	1696.8	1615.4	1585.9	1573.6	1521.7	1528.2	1499.4
35°	1945.4	1964.9	1936.8	1915.9	1892.1	1826.5	1745.1	1784.7	1701.2	1685.3	1610.4
37.5°	2034.8	2029.0	2062.1	2040.5	2035.5	1989.4	1900.0	1908.0	1851.7	1848.1	1761.7
40°	2114.7	2116.2	2161.6	2171.7	2151.5	2069.3	1939.7	2002.3	2047.7	2052.1	1941.1
42.5°	2181.0	2200.5	2239.4	2320.8	2290.5	2153.7	1980.7	2049.2	2217.8	2244.4	2111.1
45°	2238.7	2278.3	2326.6	2399.3	2382.1	2273.3	2083.0	2145.7	2399.3	2469.2	2271.1
47.5°	2242.3	2294.2	2346.8	2454.8	2476.4	2337.4	2189.0	2298.5	2543.5	2619.1	2387.8
50°	2227.9	2255.2	2360.4	2477.9	2526.9	2441.9	2337.4	2426.7	2683.2	2730.8	2446.9
52.5°	2057.1	2078.0	2289.1	2499.5	2617.7	2560.0	2534.1	2605.4	2825.9	2861.2	2502.4
55°	1714.9	1711.2	2001.6	2390.7	2659.5	2735.1	2719.3	2744.5	2990.9	3022.6	2516.1
57.5°	1173.0	1238.6	1489.3	1990.8	2403.7	2694.0	2710.6	2668.8	2798.5	2810.8	2193.3
60°	632.6	660.0	861.7	1328.6	1830.1	2195.4	2238.7	2163.0	2152.9	2118.3	1565.7
62.5°	251.5	265.2	379.7	657.8	997.2	1334.4	1427.4	1396.4	1330.1	1239.3	810.6
65°	119.6	128.3	188.8	307.7	442.4	556.2	649.2	678.0	500.0	450.3	267.3
67.5°	81.4	87.9	137.6	175.8	157.8	165.0	214.7	199.6	117.4	100.2	74.2
70°	62.0	66.3	110.2	119.6	70.6	49.7	55.5	51.9	48.3	49.0	48.3
72.5°	44.0	47.6	80.7	70.6	31.0	23.1	29.5	35.3	35.3	35.3	34.6
75°	26.7	30.3	46.8	27.4	12.2	12.2	18.7	23.8	25.2	25.9	24.5
77.5°	13.7	17.3	15.9	7.9	7.9	9.4	13.7	16.6	18.0	18.0	17.3
80°	2.9	2.9	2.9	4.3	7.9	10.1	13.7	15.1	17.3	17.3	15.9
82.5°	0.0	0.7	2.2	4.3	7.2	9.4	13.0	15.1	17.3	18.0	16.6
85°	0.0	0.7	1.4	2.9	5.0	5.8	5.0	4.3	4.3	4.3	4.3
87.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	1046.2	1048.4	1044.8	1044.0	1041.2	1049.8	1028.9	1023.9	1036.8	1024.6	1027.5
5°	1059.9	1064.9	1058.5	1047.6	1031.8	1007.3	986.4	959.0	946.0	936.7	935.2
7.5°	1070.0	1073.6	1067.1	1032.5	985.0	923.0	876.9	843.0	816.4	808.4	795.5
10°	1111.0	1111.8	1079.3	1003.0	910.0	828.6	758.0	706.1	679.5	662.9	655.7
12.5°	1138.4	1137.0	1071.4	944.6	820.7	712.6	631.9	569.2	544.7	536.8	531.7
15°	1173.0	1165.1	1052.7	884.8	705.4	588.7	515.9	472.7	470.5	465.5	470.5
17.5°	1200.4	1178.1	1025.3	776.0	595.2	484.9	437.4	440.2	446.0	451.0	451.8
20°	1245.1	1199.0	962.6	680.9	492.8	415.7	415.0	428.0	442.4	448.2	453.9
22.5°	1278.9	1207.6	895.6	579.3	409.3	387.6	399.9	419.3	430.2	435.9	444.6
25°	1291.2	1183.8	806.3	477.7	368.9	374.7	393.4	406.4	420.1	426.6	422.9
27.5°	1303.4	1171.6	699.6	393.4	347.3	366.0	381.9	394.8	399.2	407.8	413.6
30°	1333.0	1129.1	603.8	340.1	336.5	360.3	371.8	376.1	387.6	392.7	392.7
32.5°	1356.7	1112.5	502.2	314.9	335.0	363.1	364.6	364.6	366.0	362.4	361.0
35°	1405.7	1055.6	411.4	299.7	334.3	363.9	367.5	355.2	322.1	309.1	305.5
37.5°	1466.3	1018.8	344.4	296.1	339.4	372.5	378.3	332.2	288.9	268.0	264.4
40°	1539.8	992.9	300.5	294.7	350.9	392.7	375.4	314.1	257.9	227.7	226.2
42.5°	1625.5	969.1	270.9	294.0	365.3	413.6	372.5	299.0	226.2	206.1	209.0
45°	1694.0	956.1	250.7	288.9	370.3	425.8	374.7	272.4	213.3	200.3	201.7
47.5°	1747.3	928.8	234.2	280.3	369.6	430.2	355.2	261.6	206.8	210.4	214.0
50°	1748.7	892.0	213.3	261.6	358.8	422.2	332.9	251.5	205.3	220.5	227.7
52.5°	1729.3	840.1	190.9	234.9	333.6	394.8	312.7	247.1	198.9	197.4	206.1
55°	1660.1	742.9	153.5	190.2	281.7	325.7	294.7	239.2	179.4	162.8	164.3
57.5°	1341.6	532.5	113.1	136.2	199.6	238.5	265.9	235.6	161.4	138.3	139.1
60°	830.8	301.9	82.9	92.9	123.2	144.8	215.4	219.0	144.1	116.7	115.3
62.5°	426.6	149.1	64.1	65.6	75.7	85.0	147.7	183.7	130.4	111.0	111.0
65°	142.7	73.5	56.2	50.4	50.4	52.6	89.3	127.5	110.2	92.9	92.9
67.5°	61.2	54.8	49.0	44.0	40.3	38.2	50.4	74.2	82.1	70.6	67.7
70°	47.6	46.1	42.5	36.7	31.7	28.8	29.5	38.2	46.8	45.4	44.0
72.5°	35.3	35.3	33.9	28.8	24.5	20.9	19.5	20.2	22.3	23.1	23.8
75°	24.5	25.2	25.2	22.3	18.0	15.1	13.0	10.8	8.6	7.2	6.5
77.5°	16.6	17.3	18.7	16.6	13.7	10.1	7.9	5.8	3.6	1.4	1.4
80°	14.4	16.6	18.0	16.6	14.4	10.8	7.9	4.3	2.2	0.0	0.0
82.5°	15.1	16.6	18.7	15.9	13.7	10.1	7.9	5.0	2.2	0.7	0.0
85°	3.6	3.6	4.3	5.0	6.5	7.2	5.8	3.6	2.2	0.7	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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)