

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: P451082

Luminaire Tested: **GALN-SA1D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6168 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 65
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



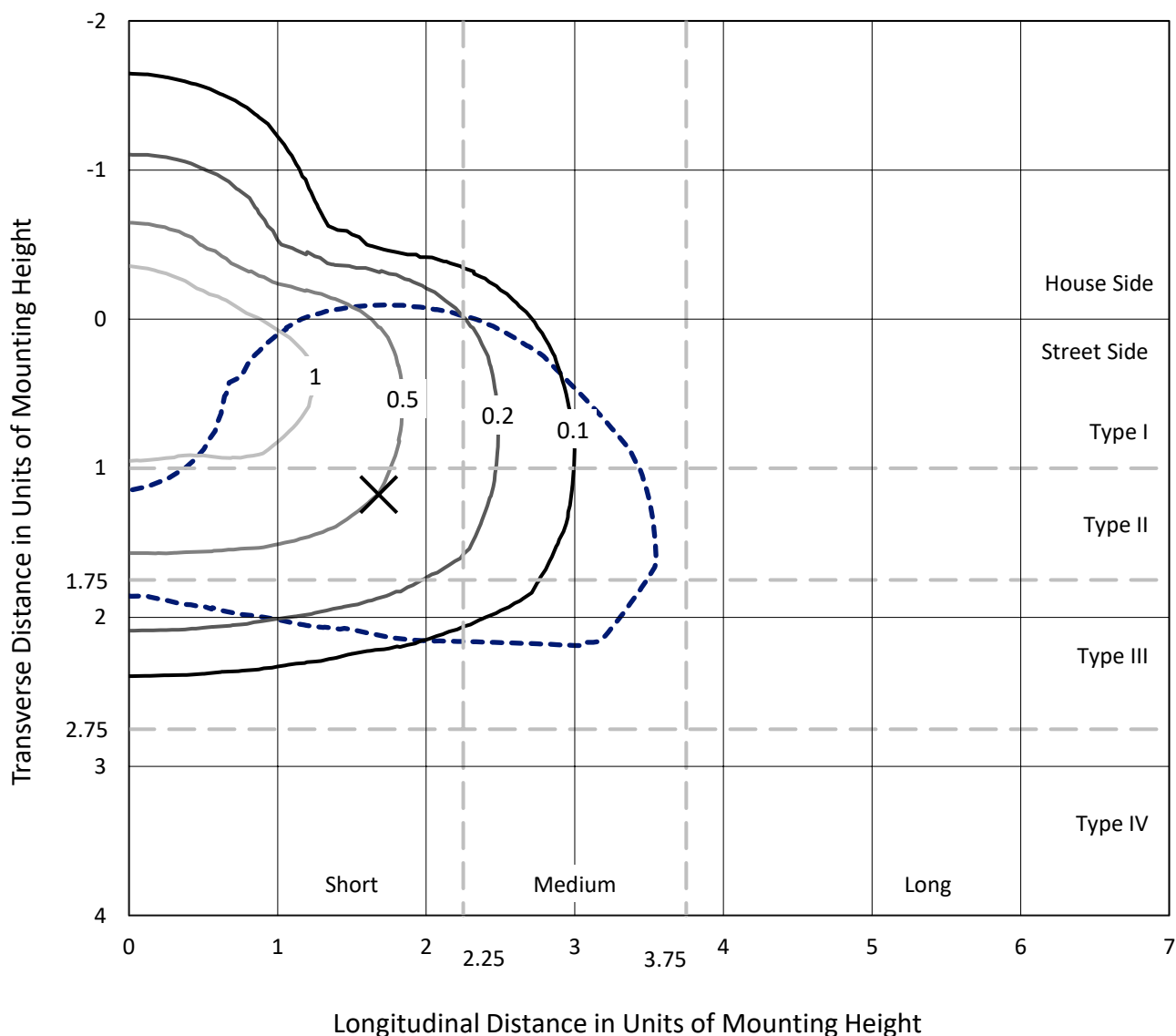
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

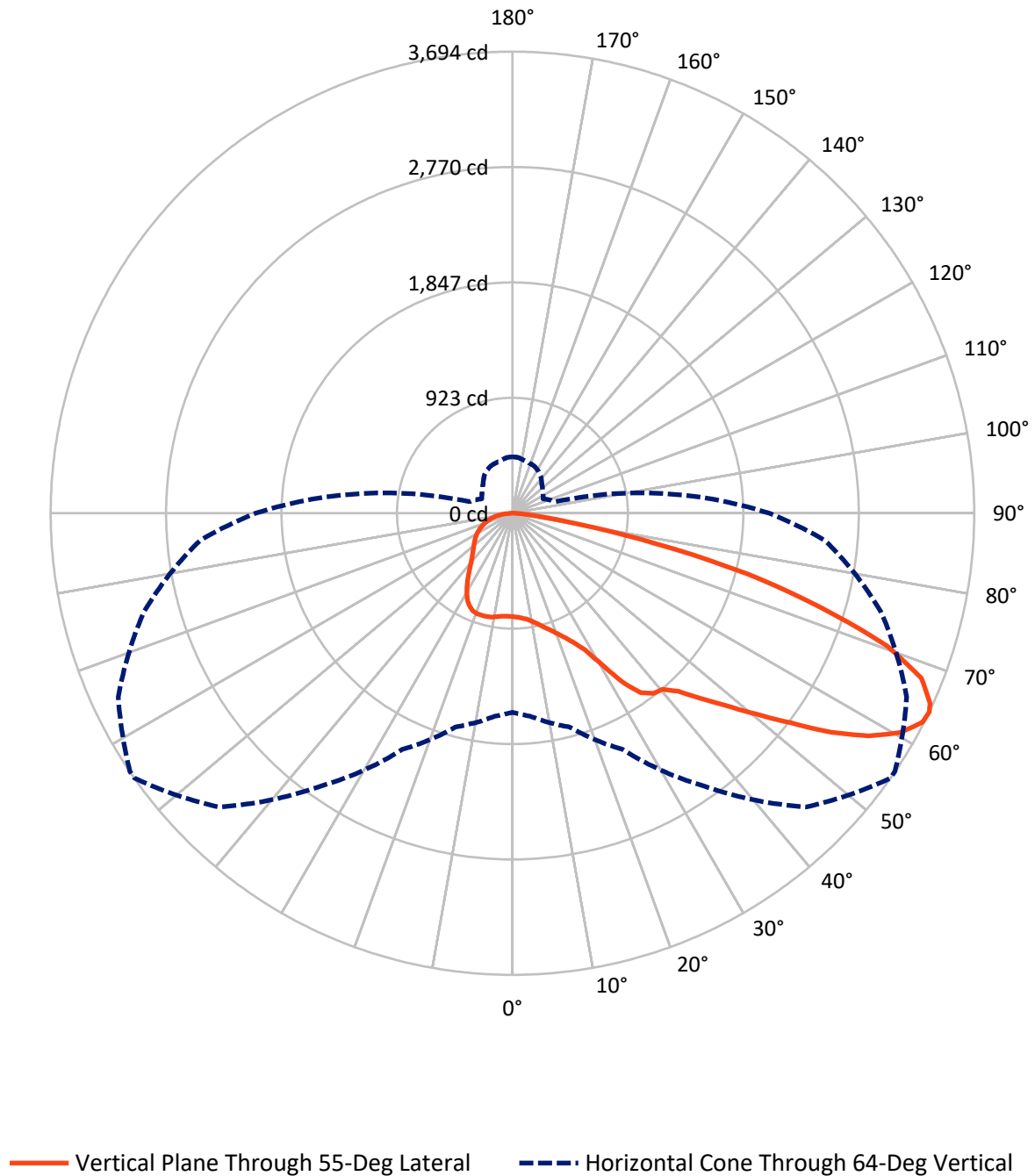


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.3	0.0	1498.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4669.7	0.0	4669.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	6168.0	0.0	6168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.3
10°-20°	254.0	4.1
20°-30°	452.2	7.3
30°-40°	695.7	11.3
40°-50°	986.3	16.0
50°-60°	1427.6	23.1
60°-70°	1477.4	24.0
70°-80°	691.9	11.2
80°-90°	102.4	1.7
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°	6168.0	100.0
0°-180°	6168.0	100.0

Coefficient of Utilization



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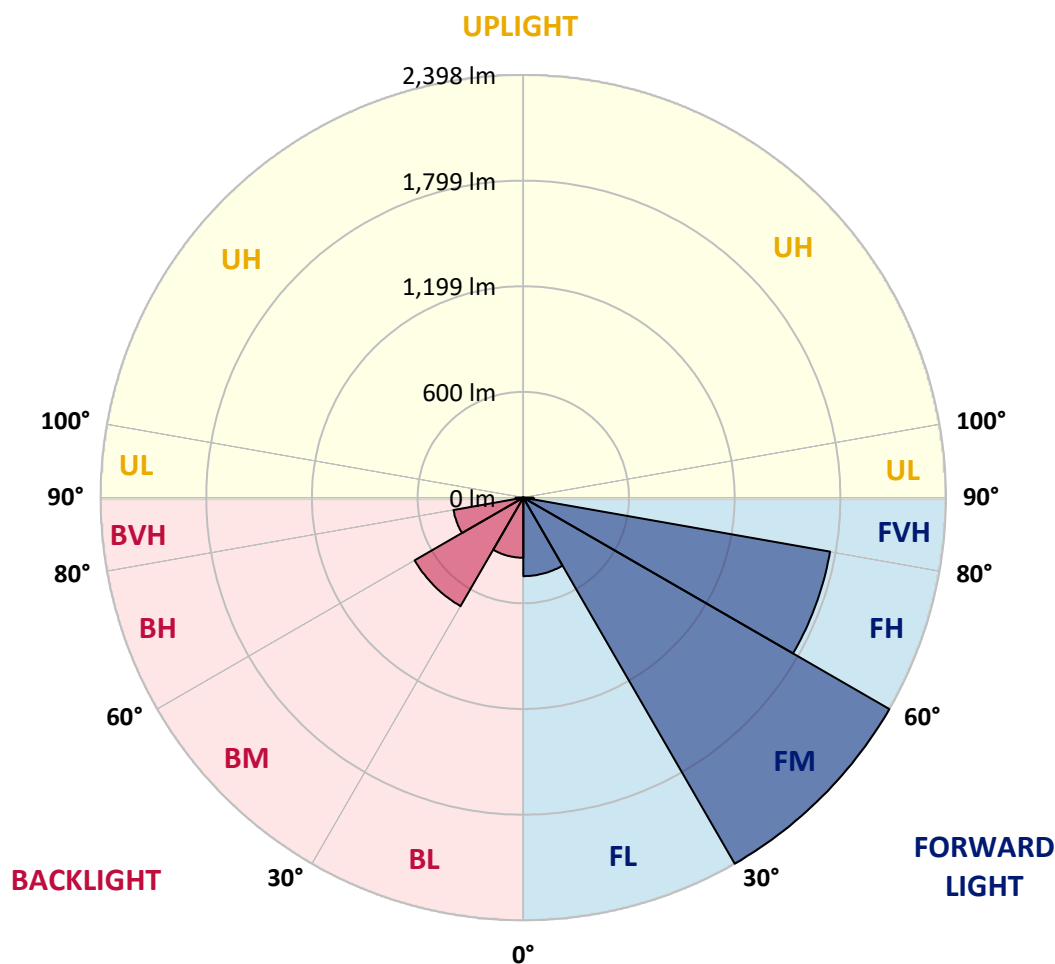
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	445.4	7.2			
FM	(30°-60°)	2398.3	38.9			
FH	(60°-80°)	1767.3	28.7			G1/1800
FVH	(80°-90°)	58.6	1.0			G1/100
BL	(0°-30°)	341.3	5.5	B1/500		
BM	(30°-60°)	711.3	11.5	B1/1000		
BH	(60°-80°)	402.0	6.5	B1/500		G1/500
BVH	(80°-90°)	43.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6
2.5°	836.8	836.5	837.5	836.5	837.2	834.8	833.7	834.4	833.4	831.7	828.6
5°	847.2	846.8	847.2	845.8	846.5	845.1	842.7	843.4	841.7	837.9	833.4
7.5°	864.7	863.3	863.3	863.0	861.6	859.5	857.8	857.1	855.4	850.6	843.7
10°	887.4	887.4	887.7	885.0	886.7	882.9	881.2	880.9	875.0	868.8	859.2
12.5°	917.3	919.0	918.0	916.6	915.9	914.5	908.7	910.1	903.5	892.9	881.2
15°	954.4	957.2	955.5	954.8	953.1	947.9	945.5	944.5	935.9	920.4	904.9
17.5°	1003.6	1000.2	998.8	997.1	989.8	986.1	981.9	981.2	973.7	955.5	931.4
20°	1046.6	1051.4	1048.6	1046.9	1039.7	1032.5	1029.4	1028.3	1021.8	1001.9	963.4
22.5°	1097.8	1098.8	1099.9	1095.7	1092.3	1086.8	1081.3	1079.6	1077.2	1056.5	1009.4
25°	1152.5	1156.6	1153.2	1149.0	1144.9	1144.6	1149.7	1149.0	1148.0	1128.1	1070.6
27.5°	1241.5	1245.3	1246.3	1241.9	1226.0	1227.4	1239.1	1242.9	1258.7	1225.7	1149.4
30°	1291.7	1295.5	1304.1	1320.9	1346.0	1368.0	1396.2	1404.8	1420.0	1357.7	1242.9
32.5°	1322.7	1324.0	1339.5	1370.8	1446.1	1528.3	1604.9	1608.0	1617.6	1530.3	1328.5
35°	1371.5	1372.5	1384.9	1419.3	1507.6	1644.5	1763.1	1766.9	1759.0	1583.9	1368.4
37.5°	1431.6	1434.4	1442.3	1470.8	1576.4	1741.8	1828.7	1826.0	1755.9	1626.6	1438.9
40°	1519.3	1519.3	1510.0	1548.5	1648.9	1797.5	1851.8	1847.0	1828.4	1750.0	1546.1
42.5°	1596.7	1595.3	1617.3	1643.4	1739.7	1883.4	1948.4	1956.3	1986.9	1905.1	1668.2
45°	1697.4	1703.6	1716.0	1763.4	1894.1	2030.2	2114.1	2121.7	2165.0	2087.6	1810.9
47.5°	1799.2	1801.2	1840.1	1903.4	2085.2	2229.3	2298.1	2310.4	2350.0	2301.1	1964.6
50°	1871.4	1891.0	1953.2	2052.9	2282.2	2472.0	2525.7	2540.4	2610.2	2533.6	2143.7
52.5°	1947.7	1967.0	2042.9	2194.9	2508.5	2720.3	2786.3	2796.2	2868.8	2768.7	2326.9
55°	2013.0	2030.9	2117.2	2320.7	2688.6	2973.6	3093.3	3081.6	3116.3	2949.9	2468.2
57.5°	2023.7	2038.1	2146.8	2401.2	2824.1	3190.9	3362.5	3369.4	3329.1	3085.4	2584.8
60°	1941.2	1970.7	2095.5	2392.6	2884.9	3342.2	3563.3	3568.1	3454.0	3154.8	2631.2
62.5°	1795.1	1792.0	1942.9	2254.4	2799.7	3376.6	3681.6	3676.4	3502.8	3121.5	2586.2
64°	1593.2	1630.4	1771.3	2084.5	2662.1	3323.6	3693.9	3691.2	3479.4	3052.0	2509.5
65°	1470.1	1468.1	1607.3	1945.6	2525.3	3243.9	3671.9	3668.1	3430.6	2989.8	2450.0
67.5°	1061.4	1066.2	1203.7	1501.4	2052.9	2932.0	3528.6	3514.5	3238.0	2783.5	2223.8
70°	642.9	645.7	753.6	996.0	1473.6	2370.3	3180.6	3181.3	2943.4	2475.5	1892.7
72.5°	338.7	345.9	389.2	565.6	894.9	1663.0	2580.3	2641.5	2527.0	2112.7	1495.2
75°	188.4	189.4	220.0	278.8	456.6	930.7	1939.5	1957.0	2000.7	1700.5	1105.7
77.5°	143.7	145.8	155.4	180.2	248.6	431.5	1173.8	1261.8	1410.0	1198.9	630.9
80°	116.6	118.6	126.9	141.7	165.4	204.6	545.3	592.7	754.7	532.2	246.2
82.5°	90.8	89.4	100.0	109.7	120.3	121.0	223.8	247.5	307.4	229.0	106.6
85°	67.4	67.4	76.0	73.9	77.7	70.8	98.7	109.0	123.1	97.3	49.5
87.5°	26.8	29.6	49.9	44.7	34.7	27.8	36.4	38.5	42.6	38.2	20.6
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°	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6
2.5°	828.9	830.0	827.6	825.8	825.2	824.1	823.1	823.4	824.8	826.2	825.8
5°	833.1	833.4	829.3	827.2	825.8	824.5	824.5	825.5	828.2	830.3	830.3
7.5°	843.4	843.4	837.5	833.7	831.7	829.3	828.6	828.9	831.0	833.7	834.1
10°	859.5	858.2	850.6	844.8	841.0	835.1	830.0	827.2	828.2	830.0	830.0
12.5°	879.1	875.3	865.7	857.8	848.5	837.5	826.9	821.4	821.0	822.7	822.1
15°	900.1	896.0	882.6	868.1	852.0	835.8	823.1	815.2	809.0	807.3	811.1
17.5°	924.5	915.9	897.4	877.4	853.3	832.4	812.4	796.3	785.3	782.2	783.2
20°	954.1	942.7	917.6	886.4	852.3	820.0	789.1	767.4	749.5	744.0	744.7
22.5°	995.0	975.4	938.6	890.8	843.7	796.6	753.6	725.4	703.8	695.2	700.3
25°	1041.4	1020.1	958.6	889.8	821.4	759.1	711.7	674.9	655.3	642.6	645.3
27.5°	1105.4	1067.5	979.9	880.5	789.4	713.4	658.4	623.7	605.8	599.3	602.4
30°	1187.2	1129.1	1002.9	855.4	738.9	655.7	604.8	582.1	571.4	563.2	565.9
32.5°	1246.3	1172.4	1008.1	813.1	684.2	603.0	568.3	551.5	539.8	531.9	533.6
35°	1288.6	1209.2	1005.7	761.2	627.1	559.7	539.4	525.7	506.8	489.6	486.5
37.5°	1345.3	1255.3	988.1	704.5	570.7	530.5	516.1	490.6	463.5	440.4	439.4
40°	1432.3	1309.2	950.6	637.8	522.6	508.8	491.3	458.3	429.1	410.5	409.1
42.5°	1522.1	1359.1	899.8	567.6	483.1	486.2	464.8	432.2	414.3	402.3	400.9
45°	1631.7	1413.1	844.8	506.8	453.8	464.8	441.8	422.9	412.2	404.3	402.3
47.5°	1750.4	1468.4	782.9	452.1	429.1	445.2	432.2	423.6	417.7	412.2	409.8
50°	1878.3	1530.3	724.8	408.1	406.7	425.0	431.1	428.0	424.6	422.9	420.8
52.5°	2018.5	1593.6	675.9	377.2	387.1	410.5	431.5	433.9	433.9	432.9	431.5
55°	2113.4	1637.6	626.4	352.1	367.2	398.8	430.8	440.1	443.5	442.1	440.8
57.5°	2183.6	1661.7	564.2	330.4	350.3	387.5	427.0	440.8	444.2	445.9	445.2
60°	2198.0	1639.3	482.7	307.7	332.1	371.0	413.3	430.5	434.9	445.6	446.6
62.5°	2133.0	1570.5	401.6	285.4	309.8	345.9	394.7	418.8	427.7	444.2	445.9
64°	2053.3	1493.5	356.5	271.3	295.3	331.8	385.4	415.7	427.4	449.4	450.7
65°	1994.8	1437.5	328.3	262.3	286.1	322.5	380.3	416.7	430.5	457.3	459.3
67.5°	1779.6	1244.6	271.6	241.4	264.0	306.7	381.3	425.3	429.8	460.4	460.0
70°	1472.6	990.9	227.6	222.1	242.7	294.0	377.2	411.5	411.9	432.2	427.4
72.5°	1102.6	732.3	197.3	202.2	219.0	263.7	356.2	393.0	387.1	389.9	385.1
75°	757.4	484.4	169.8	180.8	194.3	233.1	326.6	356.9	347.6	344.2	340.7
77.5°	404.3	267.8	141.3	159.9	168.8	201.5	285.0	314.2	304.6	291.2	286.7
80°	163.7	126.2	113.8	132.4	137.5	162.3	237.2	255.5	248.2	224.9	217.3
82.5°	82.2	75.6	89.4	104.2	104.5	115.9	176.4	193.6	177.4	148.9	142.3
85°	43.0	44.4	61.5	73.2	64.6	62.6	105.9	117.2	107.6	93.5	84.2
87.5°	15.5	17.9	32.3	32.0	22.7	12.0	23.4	11.3	6.2	3.8	4.8
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)