

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: P450647

Luminaire Tested: **GALN-SA1C-722-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450647
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-SA1C-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5186 lumens
Efficiency: N/A
Efficacy: 91.0 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

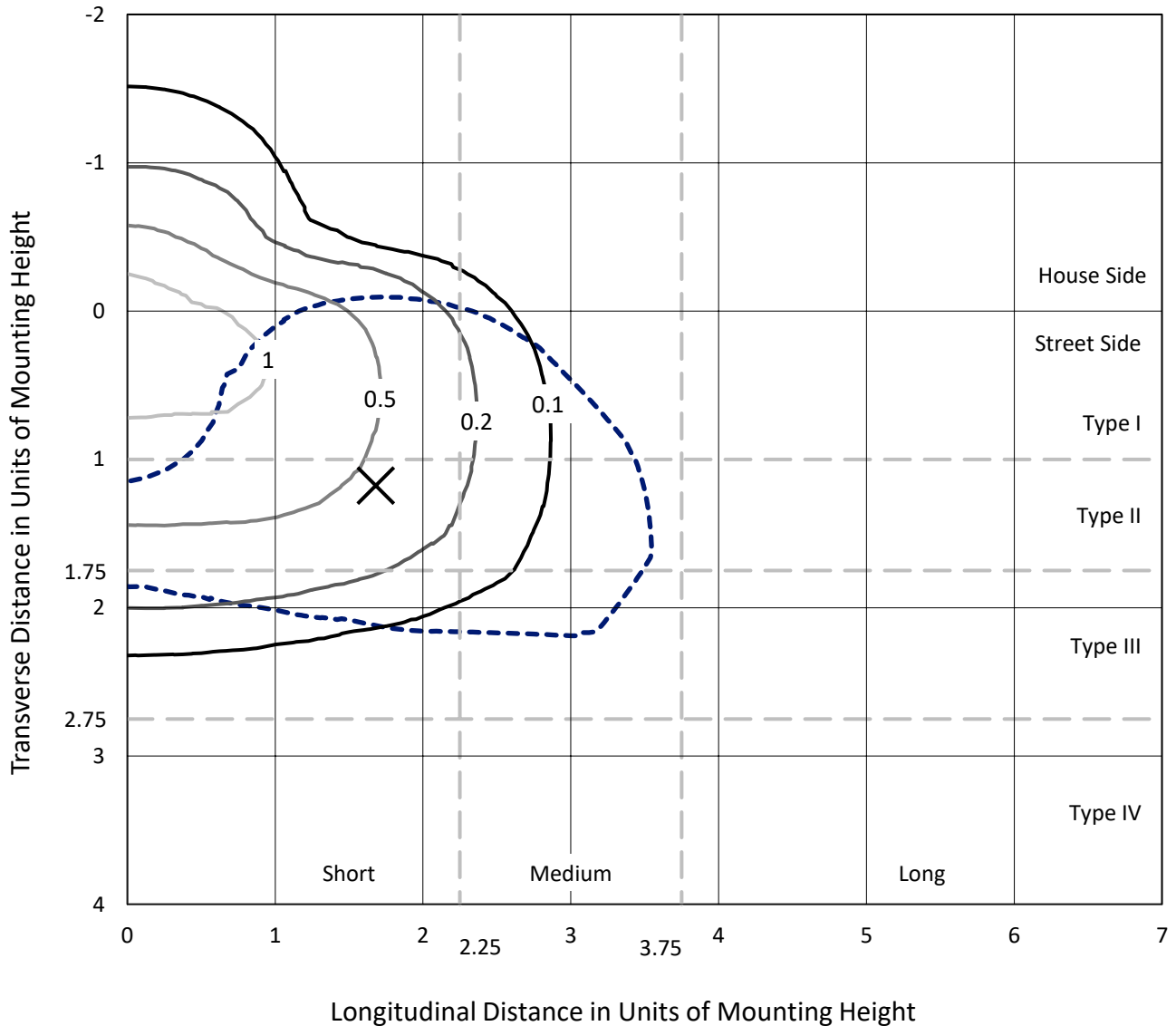
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

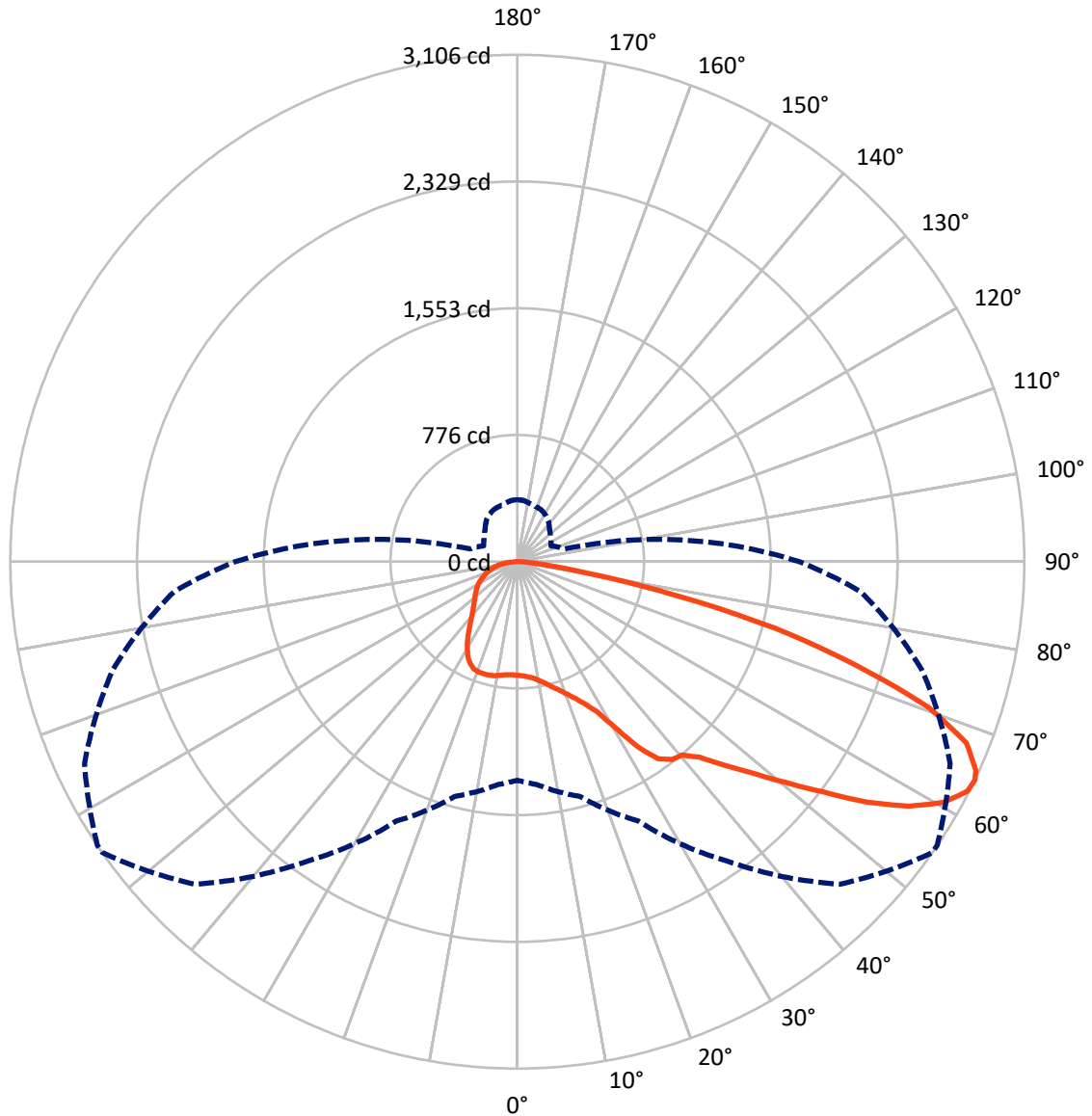
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.8	0.0	1259.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	3926.2	0.0	3926.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	5186.0	0.0	5186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.3
10°-20°	213.6	4.1
20°-30°	380.2	7.3
30°-40°	585.0	11.3
40°-50°	829.2	16.0
50°-60°	1200.3	23.1
60°-70°	1242.2	24.0
70°-80°	581.7	11.2
80°-90°	86.1	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°	5186.0	100.0
0°-180°	5186.0	100.0

Coefficient of Utilization



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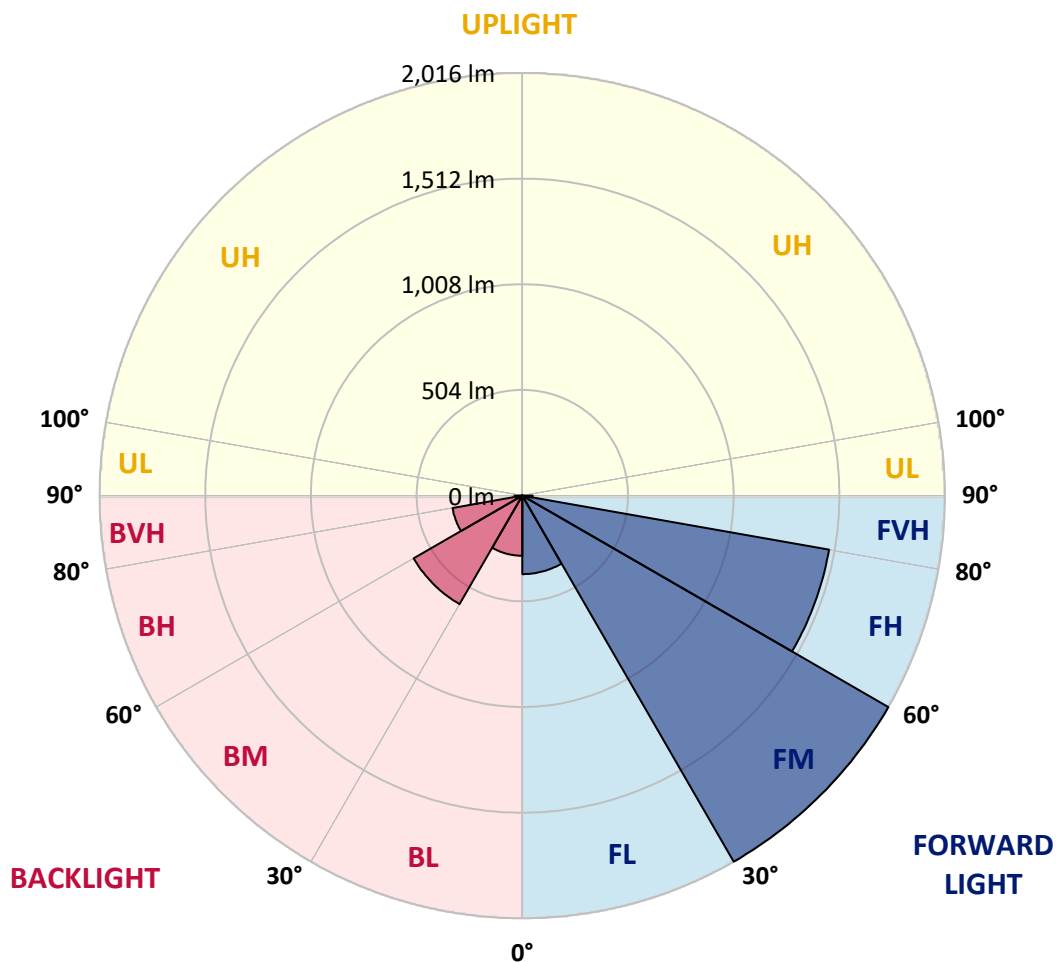
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.5	7.2			
FM (30°-60°)	2016.5	38.9			
FH (60°-80°)	1485.9	28.7			G1/1800
FVH (80°-90°)	49.3	1.0			G1/100
BL (0°-30°)	286.9	5.5	B1/500		
BM (30°-60°)	598.1	11.5	B1/1000		
BH (60°-80°)	338.0	6.5	B1/500		G1/500
BVH (80°-90°)	36.8	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°	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8
2.5°	703.6	703.3	704.2	703.3	703.9	701.9	701.0	701.6	700.7	699.3	696.7
5°	712.3	712.0	712.3	711.1	711.7	710.5	708.5	709.1	707.7	704.5	700.7
7.5°	727.0	725.9	725.9	725.6	724.4	722.7	721.2	720.7	719.2	715.2	709.4
10°	746.1	746.1	746.4	744.1	745.5	742.3	740.9	740.6	735.7	730.5	722.4
12.5°	771.3	772.7	771.8	770.7	770.1	768.9	764.0	765.2	759.7	750.7	740.9
15°	802.5	804.8	803.3	802.8	801.3	797.0	795.0	794.1	786.9	773.9	760.8
17.5°	843.8	840.9	839.8	838.3	832.2	829.1	825.6	825.0	818.7	803.3	783.1
20°	879.9	884.0	881.7	880.2	874.2	868.1	865.5	864.6	859.1	842.4	810.0
22.5°	923.0	923.9	924.8	921.3	918.4	913.8	909.1	907.7	905.7	888.3	848.7
25°	969.0	972.4	969.6	966.1	962.6	962.3	966.7	966.1	965.2	948.5	900.2
27.5°	1043.9	1047.0	1047.9	1044.1	1030.8	1032.0	1041.8	1045.0	1058.3	1030.6	966.4
30°	1086.1	1089.2	1096.5	1110.6	1131.7	1150.2	1173.9	1181.2	1193.9	1141.6	1045.0
32.5°	1112.1	1113.2	1126.2	1152.5	1215.9	1284.9	1349.4	1352.0	1360.1	1286.7	1117.0
35°	1153.1	1154.0	1164.4	1193.3	1267.6	1382.6	1482.4	1485.6	1478.9	1331.8	1150.5
37.5°	1203.7	1206.0	1212.7	1236.7	1325.4	1464.5	1537.6	1535.3	1476.3	1367.6	1209.8
40°	1277.4	1277.4	1269.6	1302.0	1386.4	1511.3	1557.0	1552.9	1537.3	1471.4	1300.0
42.5°	1342.5	1341.3	1359.8	1381.8	1462.7	1583.6	1638.2	1644.8	1670.6	1601.8	1402.6
45°	1427.2	1432.4	1442.8	1482.7	1592.5	1707.0	1777.5	1783.9	1820.3	1755.3	1522.6
47.5°	1512.7	1514.5	1547.1	1600.3	1753.2	1874.4	1932.2	1942.6	1975.8	1934.8	1651.8
50°	1573.4	1589.9	1642.2	1726.1	1918.9	2078.5	2123.5	2136.0	2194.7	2130.2	1802.4
52.5°	1637.6	1653.8	1717.7	1845.5	2109.1	2287.2	2342.7	2351.1	2412.0	2327.9	1956.5
55°	1692.5	1707.6	1780.1	1951.3	2260.6	2500.2	2600.8	2591.0	2620.2	2480.3	2075.3
57.5°	1701.5	1713.6	1805.0	2018.9	2374.5	2682.9	2827.2	2832.9	2799.1	2594.2	2173.3
60°	1632.1	1657.0	1761.9	2011.7	2425.6	2810.1	2996.0	3000.0	2904.1	2652.6	2212.3
62.5°	1509.3	1506.7	1633.6	1895.5	2353.9	2839.0	3095.4	3091.1	2945.1	2624.5	2174.4
64°	1339.6	1370.8	1489.3	1752.7	2238.3	2794.5	3105.8	3103.5	2925.4	2566.1	2110.0
65°	1236.1	1234.4	1351.4	1635.9	2123.3	2727.4	3087.3	3084.1	2884.4	2513.8	2060.0
67.5°	892.4	896.4	1012.1	1262.4	1726.1	2465.2	2966.8	2954.9	2722.5	2340.4	1869.7
70°	540.6	542.9	633.7	837.5	1239.0	1992.9	2674.2	2674.8	2474.8	2081.3	1591.4
72.5°	284.7	290.8	327.2	475.5	752.5	1398.3	2169.5	2221.0	2124.7	1776.4	1257.2
75°	158.4	159.3	185.0	234.4	383.9	782.5	1630.7	1645.4	1682.1	1429.8	929.7
77.5°	120.8	122.6	130.7	151.5	209.0	362.8	986.9	1060.9	1185.5	1008.0	530.5
80°	98.0	99.7	106.7	119.1	139.0	172.0	458.5	498.4	634.5	447.5	207.0
82.5°	76.3	75.2	84.1	92.2	101.2	101.8	188.2	208.1	258.4	192.5	89.6
85°	56.7	56.7	63.9	62.2	65.3	59.5	83.0	91.6	103.5	81.8	41.6
87.5°	22.5	24.9	41.9	37.6	29.2	23.4	30.6	32.4	35.8	32.1	17.3
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°	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8
2.5°	697.0	697.8	695.8	694.4	693.8	692.9	692.0	692.3	693.5	694.6	694.4
5°	700.4	700.7	697.3	695.5	694.4	693.2	693.2	694.1	696.4	698.1	698.1
7.5°	709.1	709.1	704.2	701.0	699.3	697.3	696.7	697.0	698.7	701.0	701.3
10°	722.7	721.5	715.2	710.3	707.1	702.2	697.8	695.5	696.4	697.8	697.8
12.5°	739.2	736.0	727.9	721.2	713.4	704.2	695.2	690.6	690.3	691.8	691.2
15°	756.8	753.3	742.1	729.9	716.3	702.7	692.0	685.4	680.2	678.7	681.9
17.5°	777.3	770.1	754.5	737.7	717.5	699.9	683.1	669.5	660.2	657.6	658.5
20°	802.2	792.6	771.5	745.2	716.6	689.4	663.4	645.2	630.2	625.6	626.1
22.5°	836.6	820.1	789.2	749.0	709.4	669.8	633.7	609.9	591.7	584.5	588.8
25°	875.6	857.7	805.9	748.1	690.6	638.3	598.4	567.5	551.0	540.3	542.6
27.5°	929.4	897.6	823.9	740.3	663.7	599.8	553.6	524.4	509.4	503.9	506.5
30°	998.2	949.3	843.2	719.2	621.2	551.3	508.5	489.4	480.4	473.5	475.8
32.5°	1047.9	985.7	847.6	683.7	575.3	507.0	477.8	463.7	453.8	447.2	448.6
35°	1083.5	1016.7	845.5	640.0	527.3	470.6	453.6	442.0	426.1	411.6	409.0
37.5°	1131.2	1055.4	830.8	592.3	479.9	446.0	433.9	412.5	389.7	370.3	369.4
40°	1204.3	1100.8	799.3	536.2	439.4	427.8	413.1	385.3	360.8	345.2	344.0
42.5°	1279.7	1142.7	756.5	477.3	406.2	408.8	390.8	363.4	348.3	338.2	337.1
45°	1372.0	1188.1	710.3	426.1	381.6	390.8	371.5	355.6	346.6	340.0	338.2
47.5°	1471.7	1234.6	658.2	380.1	360.8	374.4	363.4	356.1	351.2	346.6	344.6
50°	1579.2	1286.7	609.4	343.1	342.0	357.3	362.5	359.9	357.0	355.6	353.8
52.5°	1697.2	1339.9	568.3	317.1	325.5	345.2	362.8	364.8	364.8	363.9	362.8
55°	1776.9	1376.9	526.7	296.0	308.7	335.3	362.2	370.0	372.9	371.8	370.6
57.5°	1835.9	1397.1	474.4	277.8	294.6	325.8	359.0	370.6	373.5	374.9	374.4
60°	1848.1	1378.3	405.9	258.7	279.2	311.9	347.5	361.9	365.7	374.6	375.5
62.5°	1793.4	1320.5	337.6	239.9	260.5	290.8	331.9	352.1	359.6	373.5	374.9
64°	1726.4	1255.7	299.8	228.1	248.3	279.0	324.1	349.5	359.3	377.8	379.0
65°	1677.2	1208.6	276.1	220.6	240.5	271.2	319.7	350.4	361.9	384.5	386.2
67.5°	1496.3	1046.5	228.4	202.9	222.0	257.9	320.6	357.6	361.3	387.1	386.8
70°	1238.1	833.1	191.4	186.7	204.1	247.2	317.1	346.0	346.3	363.4	359.3
72.5°	927.1	615.7	165.9	170.0	184.1	221.7	299.5	330.4	325.5	327.8	323.8
75°	636.8	407.3	142.8	152.1	163.3	196.0	274.6	300.1	292.3	289.4	286.5
77.5°	340.0	225.2	118.8	134.4	141.9	169.4	239.6	264.2	256.1	244.8	241.1
80°	137.6	106.1	95.7	111.3	115.6	136.4	199.5	214.8	208.7	189.1	182.7
82.5°	69.1	63.6	75.2	87.6	87.9	97.4	148.3	162.7	149.2	125.2	119.7
85°	36.1	37.3	51.7	61.6	54.3	52.6	89.0	98.6	90.5	78.6	70.8
87.5°	13.0	15.0	27.2	26.9	19.1	10.1	19.7	9.5	5.2	3.2	4.0
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)