

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: P526602

Luminaire Tested: **GALN-SA1C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

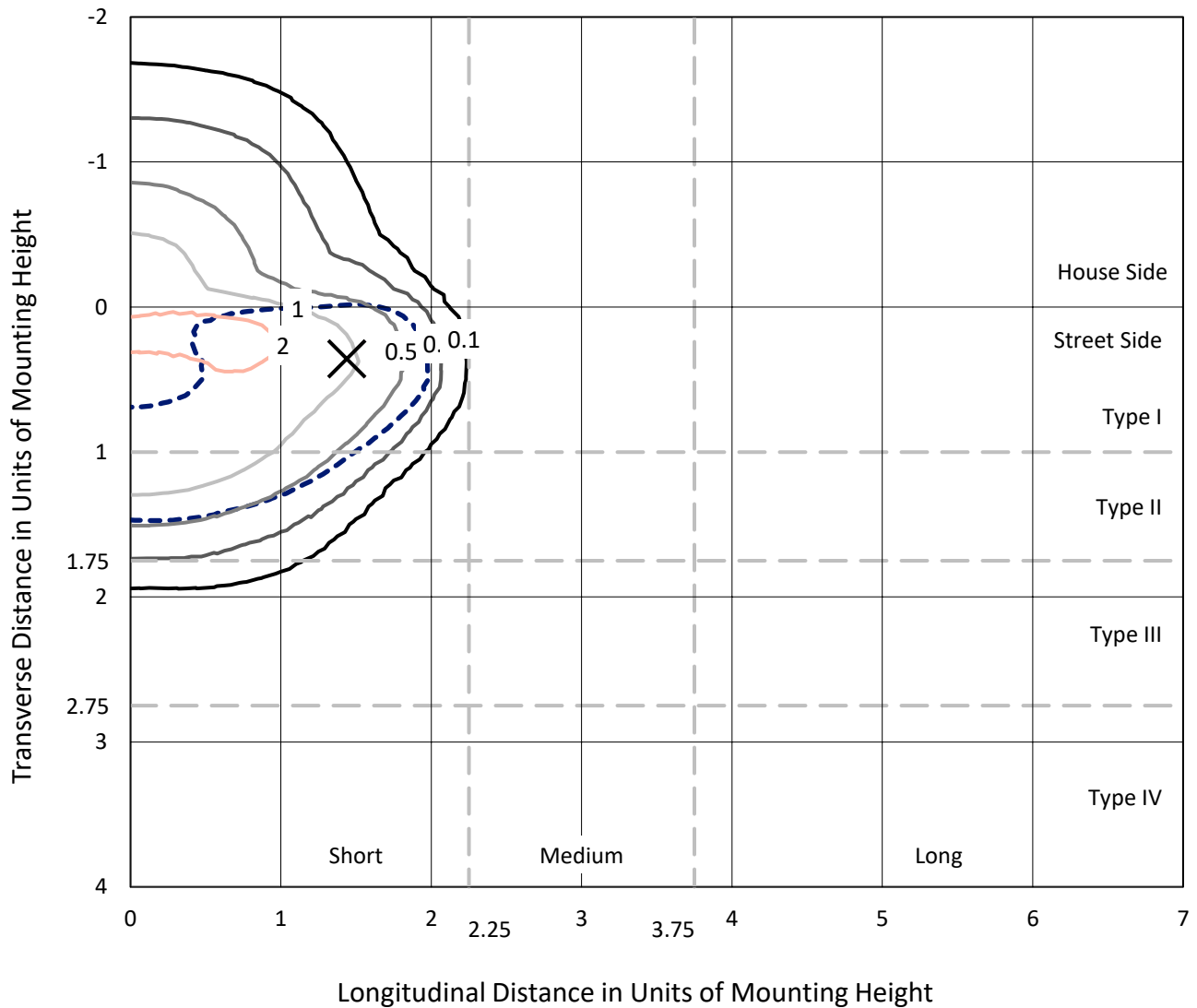
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

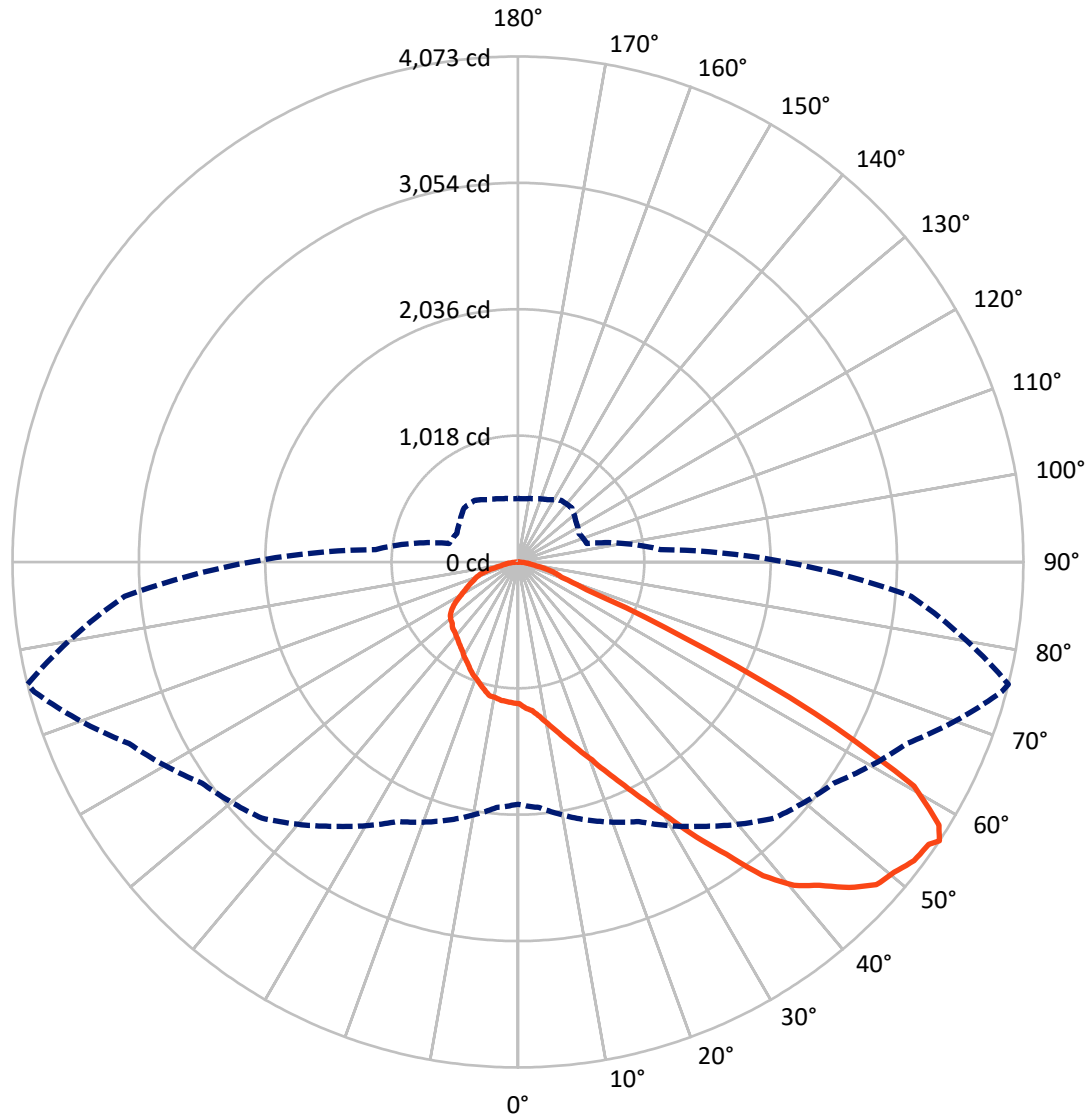
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.3	0.0	1604.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4362.7	0.0	4362.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	5967.0	0.0	5967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.9
10°-20°	355.7	6.0
20°-30°	622.0	10.4
30°-40°	973.9	16.3
40°-50°	1416.8	23.7
50°-60°	1557.1	26.1
60°-70°	695.0	11.6
70°-80°	200.8	3.4
80°-90°	32.6	0.5
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°	5967.0	100.0
0°-180°	5967.0	100.0

Coefficient of Utilization

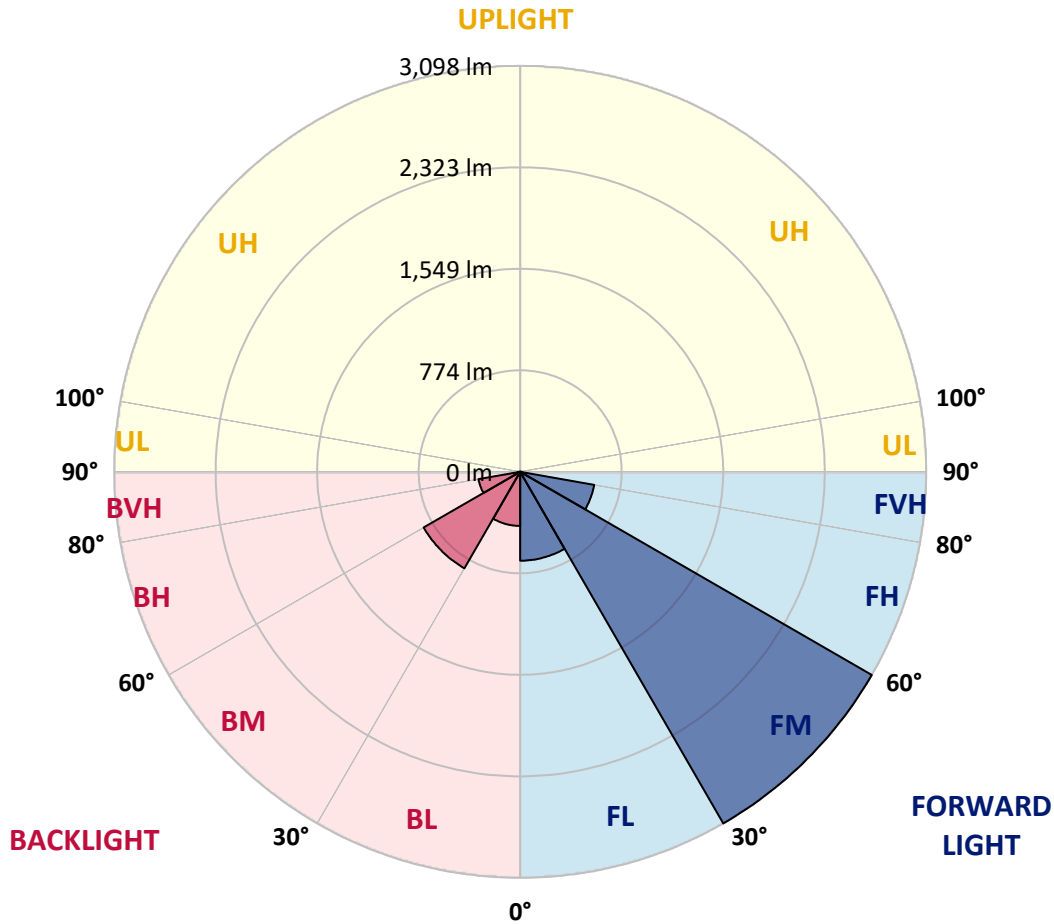


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.1	11.4			
FM (30°-60°)	3097.6	51.9			
FH (60°-80°)	573.0	9.6			G0/660
FVH (80°-90°)	14.0	0.2			G1/100
BL (0°-30°)	412.8	6.9	B1/500		
BM (30°-60°)	850.2	14.2	B1/1000		
BH (60°-80°)	322.8	5.4	B1/500		G1/500
BVH (80°-90°)	18.5	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1257.7	1237.6	1236.1	1230.7	1233.8	1219.8	1205.1	1185.8	1165.7	1178.1	1148.7
5°	1345.9	1318.8	1329.7	1311.1	1313.4	1294.9	1264.7	1242.3	1217.5	1202.8	1181.9
7.5°	1376.9	1379.2	1386.9	1383.8	1368.3	1368.3	1348.2	1308.8	1265.5	1257.0	1222.2
10°	1418.6	1419.4	1410.9	1413.2	1434.9	1424.8	1407.0	1390.0	1334.3	1324.3	1262.4
12.5°	1433.3	1419.4	1433.3	1445.7	1471.2	1485.1	1481.3	1468.9	1409.3	1402.4	1311.9
15°	1435.6	1427.1	1438.7	1466.6	1489.0	1547.8	1577.2	1568.7	1489.8	1490.6	1367.6
17.5°	1424.8	1436.4	1441.1	1465.0	1516.9	1571.8	1656.9	1668.5	1603.5	1593.4	1438.0
20°	1439.5	1431.0	1437.2	1458.9	1527.7	1613.6	1724.9	1801.5	1710.2	1703.3	1510.7
22.5°	1496.0	1484.4	1482.8	1496.8	1546.3	1635.2	1796.9	1934.6	1840.2	1844.1	1601.2
25°	1540.1	1546.3	1540.8	1540.1	1571.0	1667.7	1892.0	2093.1	2016.6	1994.1	1707.9
27.5°	1615.9	1630.6	1619.7	1634.4	1627.5	1716.4	1960.1	2268.7	2206.8	2176.7	1804.6
30°	1721.1	1728.8	1718.8	1718.8	1697.9	1784.5	2022.0	2452.0	2426.5	2385.5	1918.3
32.5°	1859.5	1871.1	1851.0	1839.4	1836.3	1885.8	2133.4	2633.0	2676.4	2641.6	2069.2
35°	2042.9	2035.9	2011.9	2001.1	1959.3	2041.3	2298.9	2841.1	2954.8	2892.9	2251.7
37.5°	2204.5	2193.7	2192.1	2131.8	2141.9	2209.2	2439.7	2998.9	3224.8	3207.0	2444.3
40°	2355.4	2365.4	2381.7	2347.6	2332.1	2406.4	2603.7	3119.6	3434.4	3427.4	2592.8
42.5°	2517.0	2507.7	2536.4	2507.7	2484.5	2589.7	2781.6	3203.1	3618.5	3561.3	2748.3
45°	2751.4	2722.0	2732.1	2734.4	2717.4	2756.0	2855.0	3263.5	3747.7	3741.5	2862.0
47.5°	2947.1	2947.9	2930.9	2917.7	2865.9	2904.6	2937.0	3301.4	3896.2	3886.1	2906.1
50°	3019.8	3009.7	3059.3	3087.9	3091.0	3012.1	3001.2	3322.2	3974.3	3930.2	2950.2
52.5°	2758.4	2767.6	2845.8	3015.9	3114.2	3122.7	3076.3	3365.6	4006.0	3996.8	2985.8
55°	2220.0	2264.9	2393.3	2589.7	2822.6	3078.6	3157.5	3410.4	4023.1	4015.3	3143.6
56°	1951.6	1986.4	2153.5	2307.4	2599.8	2918.5	3106.4	3458.4	4036.2	4072.6	3180.7
57.5°	1571.0	1611.2	1731.1	1905.9	2250.9	2613.7	2965.7	3399.6	3985.2	3999.1	3207.8
60°	982.4	986.2	1130.1	1245.4	1488.2	1842.5	2263.3	2957.9	3688.1	3668.0	2881.3
62.5°	644.3	645.1	775.8	870.2	980.8	1062.0	1332.0	1961.6	2721.2	2685.6	2051.4
65°	452.5	462.6	563.9	690.0	734.8	692.3	683.8	1034.2	1520.0	1468.9	1102.3
67.5°	331.1	331.8	421.6	556.9	621.9	526.8	427.8	505.1	601.8	600.2	510.5
70°	218.9	228.2	297.0	416.2	490.4	423.1	349.6	361.2	382.9	382.9	379.8
72.5°	127.6	136.1	181.8	263.8	275.4	264.5	276.9	309.4	323.3	322.6	318.7
75°	72.7	76.6	86.6	109.8	136.9	161.7	203.4	234.4	248.3	256.8	246.8
77.5°	42.5	44.9	51.1	62.7	71.2	87.4	110.6	132.3	150.8	148.5	150.1
80°	22.4	22.4	28.6	37.1	49.5	61.9	73.5	85.9	95.9	98.2	100.6
82.5°	13.1	13.9	18.6	27.1	35.6	44.1	56.5	65.0	74.3	75.0	76.6
85°	7.0	7.7	11.6	17.8	24.0	27.1	27.8	26.3	28.6	27.1	30.9
87.5°	2.3	2.3	3.9	3.1	3.1	3.9	4.6	4.6	6.2	6.2	6.2
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°	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1147.9	1147.9	1134.7	1110.0	1106.1	1096.1	1086.8	1086.0	1079.1	1072.9	1069.8
5°	1169.6	1145.6	1126.2	1103.8	1077.5	1065.1	1051.2	1035.7	1029.5	1035.7	1035.0
7.5°	1194.3	1174.2	1116.2	1074.4	1044.2	1031.9	1016.4	1000.2	1001.7	1001.7	990.9
10°	1218.3	1191.2	1098.4	1045.0	1000.9	991.6	983.1	989.3	997.1	998.6	991.6
12.5°	1258.5	1197.4	1089.9	1015.6	987.8	967.7	973.1	990.1	1006.3	1001.7	1007.1
15°	1288.7	1202.8	1051.2	985.5	950.7	959.9	979.3	990.9	1017.9	1014.9	1020.3
17.5°	1318.1	1205.9	1013.3	945.2	930.5	956.1	970.8	1004.0	1012.5	1031.1	1038.1
20°	1378.4	1212.1	974.6	920.5	915.8	945.2	970.8	986.2	1004.8	1021.0	1021.0
22.5°	1409.3	1209.0	949.1	888.0	902.7	921.3	944.5	970.8	970.8	986.2	987.0
25°	1448.0	1196.6	908.9	872.5	883.4	901.1	927.4	918.2	928.2	928.2	940.6
27.5°	1492.1	1170.3	874.1	844.7	866.3	885.7	889.5	883.4	871.8	870.2	865.6
30°	1527.7	1137.8	848.5	835.4	853.2	864.0	851.6	838.5	818.4	816.8	806.0
32.5°	1576.4	1097.6	816.8	812.2	832.3	833.1	829.2	809.1	779.7	767.3	755.0
35°	1658.4	1074.4	792.9	799.8	806.0	803.7	796.7	775.1	745.7	740.3	735.6
37.5°	1718.8	1057.4	768.1	776.6	782.0	785.1	764.2	740.3	741.0	730.2	727.1
40°	1786.8	1046.6	748.0	751.9	752.6	762.7	737.2	725.6	731.0	724.0	728.7
42.5°	1874.2	1049.7	727.1	724.0	738.7	734.8	722.5	707.0	710.1	689.2	692.3
45°	1920.6	1070.5	714.7	700.8	717.0	716.3	700.0	685.3	666.8	626.5	628.1
47.5°	1951.6	1076.0	685.3	676.1	693.1	703.1	684.6	650.5	624.2	595.6	588.6
50°	1983.3	1086.0	671.4	652.1	659.0	683.0	659.8	627.3	601.8	576.3	580.1
52.5°	2011.1	1105.4	644.3	615.7	628.1	654.4	642.0	602.6	574.7	553.8	547.6
55°	2134.9	1148.7	598.7	561.6	591.0	624.2	617.3	569.3	539.1	528.3	526.8
56°	2154.2	1150.2	574.7	543.0	570.1	614.2	605.7	554.6	527.5	510.5	511.3
57.5°	2157.3	1131.7	540.7	526.0	549.2	599.5	588.6	543.0	505.9	490.4	485.8
60°	1898.2	883.4	498.1	488.9	515.9	554.6	550.7	511.3	469.5	451.7	460.2
62.5°	1294.1	647.4	464.9	463.3	477.3	515.2	505.1	469.5	434.7	423.1	417.7
65°	753.4	491.2	432.4	426.2	437.8	457.9	464.9	427.8	391.4	383.7	381.3
67.5°	444.8	406.1	390.6	380.6	376.7	389.1	394.5	372.8	336.5	325.7	334.9
70°	372.1	361.2	362.0	345.0	335.7	327.2	322.6	303.2	273.1	259.1	255.3
72.5°	321.0	316.4	313.3	297.8	289.3	270.0	249.8	230.5	208.1	196.5	197.2
75°	245.2	243.7	245.2	237.5	222.8	207.3	188.7	164.0	147.0	132.3	135.4
77.5°	146.2	150.8	153.2	150.1	143.9	130.0	118.3	102.1	85.9	74.3	72.7
80°	100.6	104.4	108.3	104.4	98.2	88.2	75.8	63.4	51.8	45.6	44.1
82.5°	76.6	80.4	82.8	78.9	71.2	60.3	51.8	43.3	34.0	27.8	26.3
85°	27.8	31.7	30.9	37.1	40.2	38.7	33.3	25.5	19.3	13.9	13.1
87.5°	7.7	7.0	7.7	7.7	7.7	7.0	6.2	6.2	6.2	3.9	3.1
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)