

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: P526360

Luminaire Tested: **GALN-SA1B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4880 lumens
Efficiency: N/A
Efficacy: 110.9 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

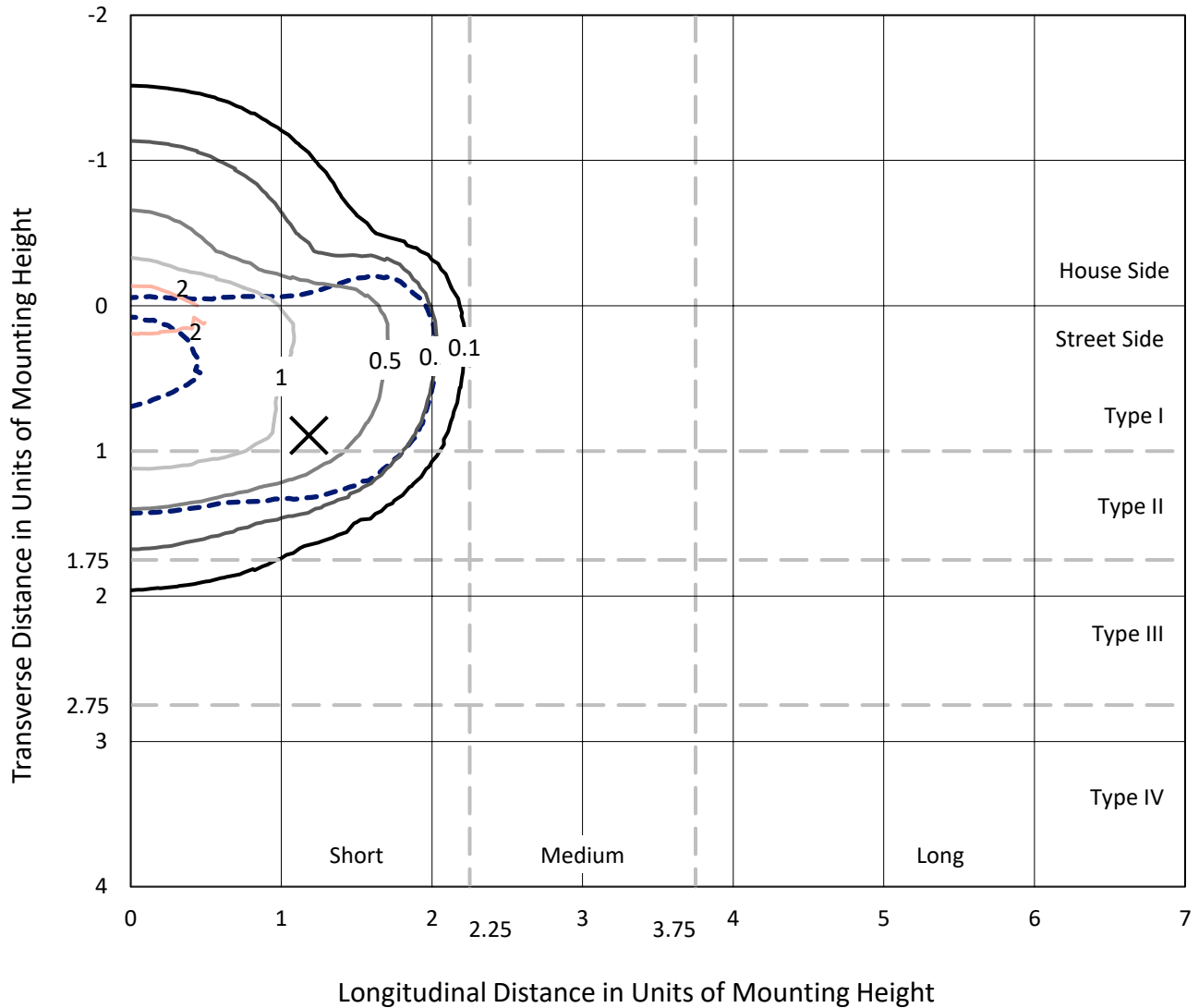
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

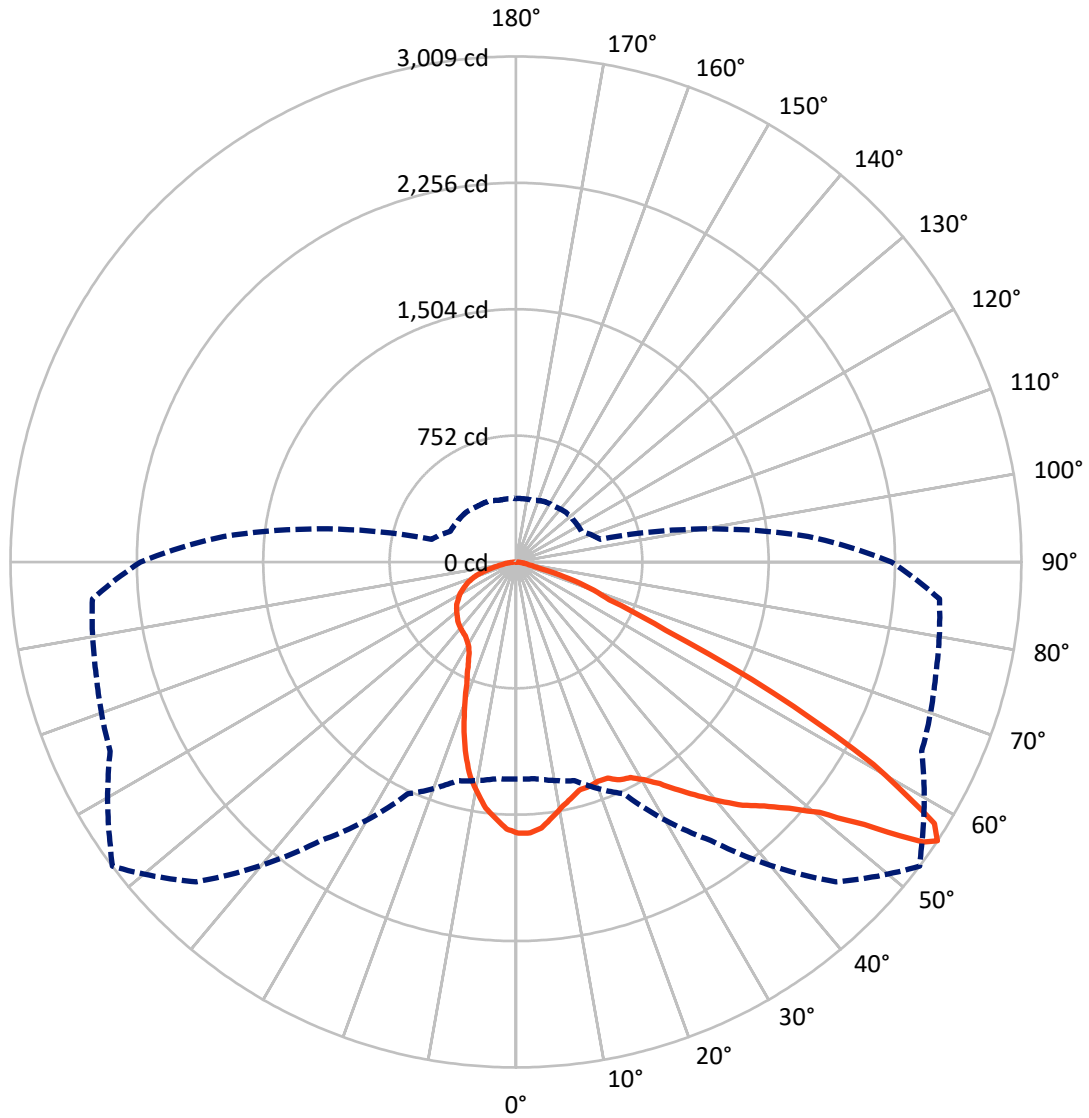
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.1	0.0	1424.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3455.9	0.0	3455.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	4880.0	0.0	4880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	2.9
10°-20°	357.0	7.3
20°-30°	526.4	10.8
30°-40°	752.1	15.4
40°-50°	1035.2	21.2
50°-60°	1223.3	25.1
60°-70°	651.9	13.4
70°-80°	165.4	3.4
80°-90°	25.8	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°	4880.0	100.0
0°-180°	4880.0	100.0

Coefficient of Utilization

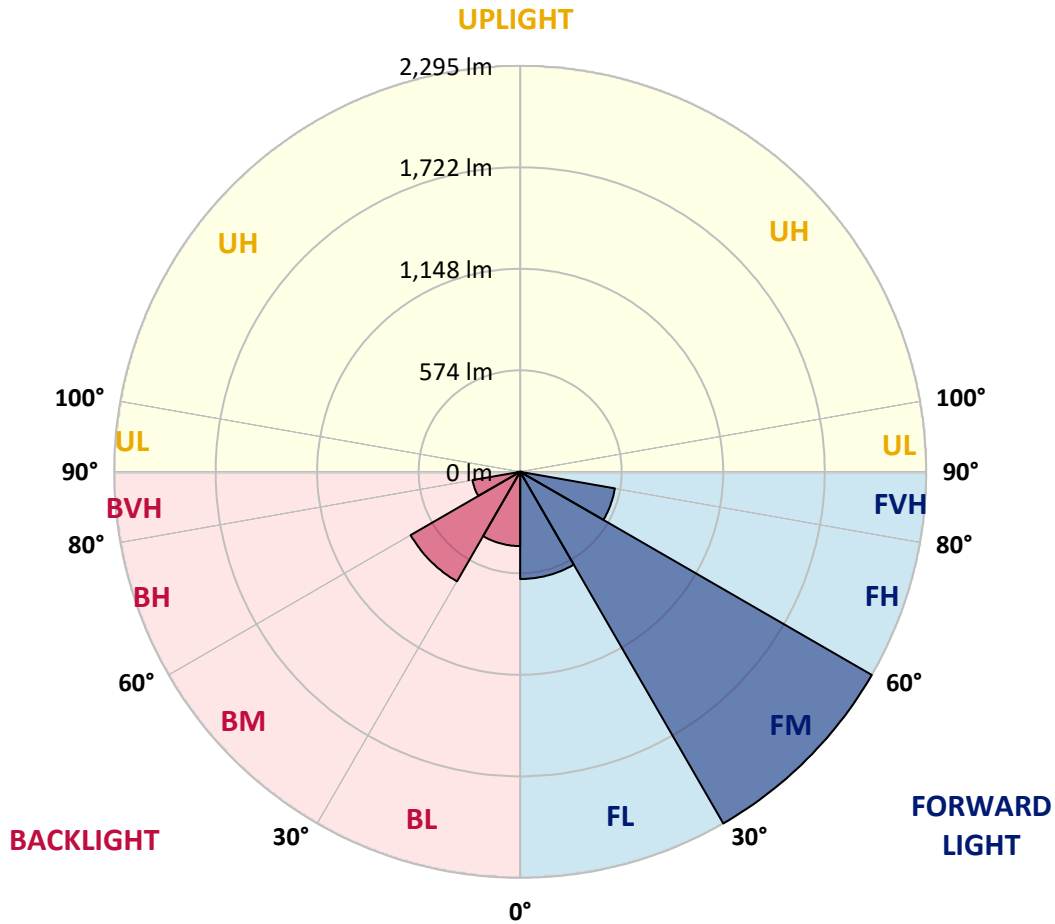


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.3	12.4			
FM (30°-60°)	2295.5	47.0			
FH (60°-80°)	543.8	11.1			G0/660
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	420.0	8.6	B1/500		
BM (30°-60°)	715.1	14.7	B1/1000		
BH (60°-80°)	273.5	5.6	B1/500		G1/500
BVH (80°-90°)	15.4	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°	53°	55°	65°	75°	85°
0°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	1594.5	1580.7	1588.8	1585.7	1611.4	1618.9	1615.1	1618.3	1632.7	1625.8	1611.4
5°	1489.9	1509.3	1513.1	1522.5	1537.5	1566.9	1590.1	1596.3	1603.2	1635.2	1632.0
7.5°	1394.8	1407.9	1401.0	1428.6	1461.1	1508.7	1536.9	1541.9	1605.1	1622.6	1635.8
10°	1334.7	1321.5	1352.8	1360.3	1397.3	1451.7	1485.5	1506.2	1563.8	1633.3	1641.4
12.5°	1279.0	1274.6	1293.3	1314.6	1356.0	1412.3	1446.7	1454.9	1543.8	1617.0	1655.2
15°	1237.6	1232.6	1251.4	1267.1	1315.3	1365.3	1409.2	1432.3	1521.8	1607.6	1643.3
17.5°	1205.1	1204.5	1215.1	1243.3	1292.7	1334.7	1405.4	1406.7	1510.6	1622.0	1653.3
20°	1203.2	1202.6	1204.5	1235.8	1280.8	1332.2	1393.5	1404.8	1510.6	1612.0	1653.9
22.5°	1218.9	1208.8	1220.1	1240.1	1272.7	1336.5	1397.9	1422.9	1546.9	1661.4	1682.1
25°	1243.9	1246.4	1252.7	1259.5	1278.3	1346.6	1436.7	1457.4	1589.5	1704.0	1720.9
27.5°	1289.6	1288.3	1290.8	1294.6	1310.9	1356.0	1452.4	1505.6	1678.3	1779.8	1762.9
30°	1356.6	1352.2	1362.2	1375.4	1360.3	1386.0	1504.3	1544.4	1761.0	1856.1	1809.8
32.5°	1417.3	1433.6	1452.4	1458.0	1439.8	1444.8	1573.2	1613.9	1829.8	1950.0	1867.4
35°	1493.0	1506.2	1531.2	1548.8	1545.6	1530.6	1667.1	1720.9	1929.4	2018.9	1928.1
37.5°	1566.9	1582.6	1623.9	1675.8	1647.0	1640.2	1767.2	1811.7	1960.1	2055.8	1972.6
40°	1685.9	1685.2	1756.6	1783.5	1809.2	1797.3	1871.2	1886.2	1976.3	2047.7	1973.8
42.5°	1825.5	1816.7	1889.3	1931.3	1964.4	1965.7	1979.5	1974.5	1983.8	2006.4	1960.7
45°	1958.2	1977.0	2050.2	2125.3	2158.5	2162.3	2070.9	2061.5	1997.0	1994.5	1935.6
47.5°	2120.3	2124.7	2184.8	2283.7	2360.7	2334.4	2189.2	2168.5	2054.6	2074.0	1977.6
50°	2129.7	2162.3	2216.1	2332.5	2569.2	2562.3	2342.6	2303.7	2147.2	2186.7	2094.7
52.5°	1933.1	1925.6	1989.5	2179.8	2553.5	2788.9	2596.7	2504.1	2346.3	2316.3	2284.3
55°	1473.0	1490.5	1546.9	1739.1	2217.4	2792.0	2942.9	2867.2	2559.2	2507.8	2470.9
56°	1292.1	1294.6	1347.8	1523.1	2023.3	2692.5	3008.6	2947.3	2665.0	2586.7	2530.4
57.5°	1071.1	1056.7	1084.3	1180.0	1707.8	2482.2	2936.6	2996.7	2788.9	2671.8	2593.6
60°	843.2	840.1	828.8	846.4	1079.3	1869.9	2444.6	2579.8	2776.4	2591.7	2484.0
62.5°	688.6	673.0	695.5	720.5	750.0	1160.0	1717.8	1797.3	2204.2	2069.0	1866.2
65°	534.0	526.5	554.7	636.0	653.6	736.8	978.5	1039.8	1301.5	1278.3	1125.6
67.5°	367.5	368.7	393.1	517.1	606.0	598.5	599.1	631.0	679.2	504.6	439.5
70°	232.9	232.3	245.4	333.0	487.7	492.7	467.6	458.2	434.5	262.9	278.6
72.5°	149.6	145.2	152.1	184.0	252.3	291.7	300.5	306.1	251.7	206.6	224.1
75°	84.5	80.1	77.6	85.8	99.5	115.2	126.5	130.2	145.9	156.5	165.9
77.5°	25.7	23.2	28.2	37.6	49.5	66.4	80.8	83.3	98.3	110.8	120.2
80°	11.3	12.5	17.5	25.0	35.1	47.0	57.0	60.7	70.7	80.1	82.6
82.5°	6.9	7.5	11.9	16.9	24.4	33.2	40.7	41.9	52.0	59.5	61.3
85°	2.5	3.1	6.3	10.0	15.7	21.3	21.3	23.2	21.3	21.3	23.2
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	2.5	2.5	3.1	3.8	4.4
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°	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5	1614.5
2.5°	1618.9	1615.7	1610.7	1592.6	1590.7	1585.1	1553.8	1548.8	1553.8	1538.7	1540.0
5°	1615.7	1625.1	1587.6	1569.4	1535.6	1511.2	1483.0	1468.6	1443.0	1426.7	1444.8
7.5°	1629.5	1625.8	1578.8	1539.4	1488.7	1426.7	1377.2	1349.1	1304.0	1291.5	1300.9
10°	1624.5	1604.5	1549.4	1497.4	1401.7	1347.2	1267.1	1189.4	1146.9	1125.0	1121.8
12.5°	1617.6	1612.0	1520.0	1430.4	1329.7	1215.1	1102.4	1029.2	959.7	929.6	934.0
15°	1625.8	1578.2	1464.9	1351.6	1217.6	1067.4	945.9	851.4	803.2	783.8	783.8
17.5°	1622.0	1561.9	1438.6	1263.3	1093.7	915.9	782.5	725.6	705.5	705.5	711.2
20°	1623.9	1572.6	1385.4	1175.0	947.2	771.3	674.2	653.6	662.3	665.5	668.6
22.5°	1634.5	1537.5	1333.4	1078.0	811.3	659.8	612.2	612.9	628.5	645.4	642.3
25°	1647.7	1523.7	1270.2	981.6	707.4	605.4	590.3	588.5	600.3	609.1	610.4
27.5°	1636.4	1499.9	1205.7	861.4	622.3	569.0	565.9	567.2	570.9	588.5	582.8
30°	1673.3	1506.8	1125.0	760.6	575.3	557.2	553.4	551.5	557.2	562.2	557.8
32.5°	1719.0	1482.4	1064.9	663.6	552.1	548.4	540.9	538.4	541.5	536.5	539.0
35°	1739.1	1478.0	986.6	594.1	534.0	530.9	526.5	525.9	526.5	522.1	518.3
37.5°	1750.3	1498.7	897.1	562.2	522.7	525.9	515.8	514.6	503.3	505.8	507.7
40°	1769.7	1466.8	824.5	531.5	515.8	509.6	500.8	498.9	491.4	487.0	491.4
42.5°	1741.6	1457.4	753.1	518.3	505.8	498.9	492.7	482.0	479.5	475.8	473.3
45°	1719.0	1403.5	689.2	502.1	493.9	490.2	478.3	467.0	457.6	461.4	455.7
47.5°	1735.9	1384.7	626.0	488.3	477.7	473.3	461.4	452.6	443.2	438.8	437.6
50°	1803.6	1419.8	572.8	478.3	463.9	461.4	445.7	435.7	426.9	423.8	425.1
52.5°	1965.1	1515.6	536.5	457.6	450.7	439.5	430.7	418.2	412.5	402.5	408.8
55°	2169.8	1671.5	527.1	438.2	434.5	424.4	412.5	403.2	392.5	384.4	382.5
56°	2235.5	1746.0	519.6	430.7	424.4	418.8	403.2	397.5	380.6	378.7	377.5
57.5°	2288.7	1811.7	520.8	416.3	410.0	405.0	395.6	381.9	370.6	363.7	366.8
60°	2168.5	1695.9	497.1	394.4	393.1	383.7	370.6	364.3	350.6	342.4	340.6
62.5°	1612.0	1151.2	403.2	366.2	365.6	355.6	340.6	333.7	331.2	319.9	319.9
65°	928.4	721.8	348.7	343.1	338.0	328.0	313.0	307.4	301.1	297.4	294.2
67.5°	396.3	374.4	316.8	316.1	310.5	298.0	283.0	274.2	266.1	258.5	262.3
70°	287.3	291.7	286.1	283.0	276.1	260.4	247.3	236.6	224.1	219.1	222.9
72.5°	227.9	237.3	245.4	246.0	237.9	219.7	205.3	190.9	177.2	170.3	173.4
75°	172.8	179.0	187.2	189.1	177.2	164.6	150.9	135.8	125.2	117.1	118.3
77.5°	124.6	123.3	130.8	129.6	124.0	115.2	102.7	88.9	77.0	69.5	70.1
80°	85.1	87.0	91.4	90.8	83.9	78.3	68.9	57.6	48.8	42.6	41.3
82.5°	59.5	62.6	66.4	63.2	57.6	52.0	45.1	36.9	30.0	25.0	23.8
85°	21.3	24.4	28.2	30.0	31.9	30.7	25.7	20.7	15.0	12.5	11.9
87.5°	4.4	5.0	5.6	5.6	5.6	5.0	4.4	4.4	3.8	1.9	1.9
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)