

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: P526932

Luminaire Tested: **GALN-SA1D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526932
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-SA1D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 5272 lumens
Efficiency: N/A
Efficacy: 81.1 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): 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

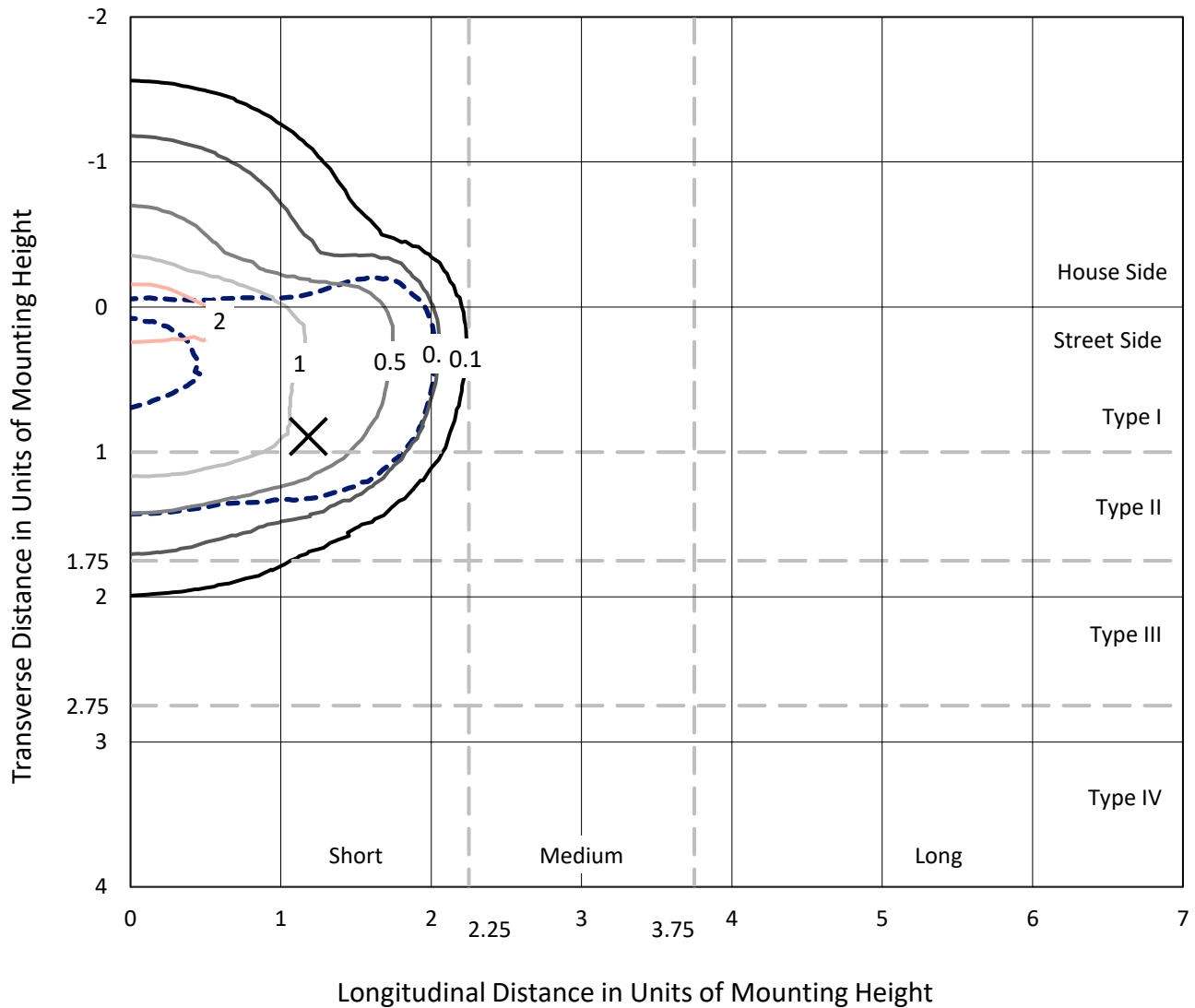


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

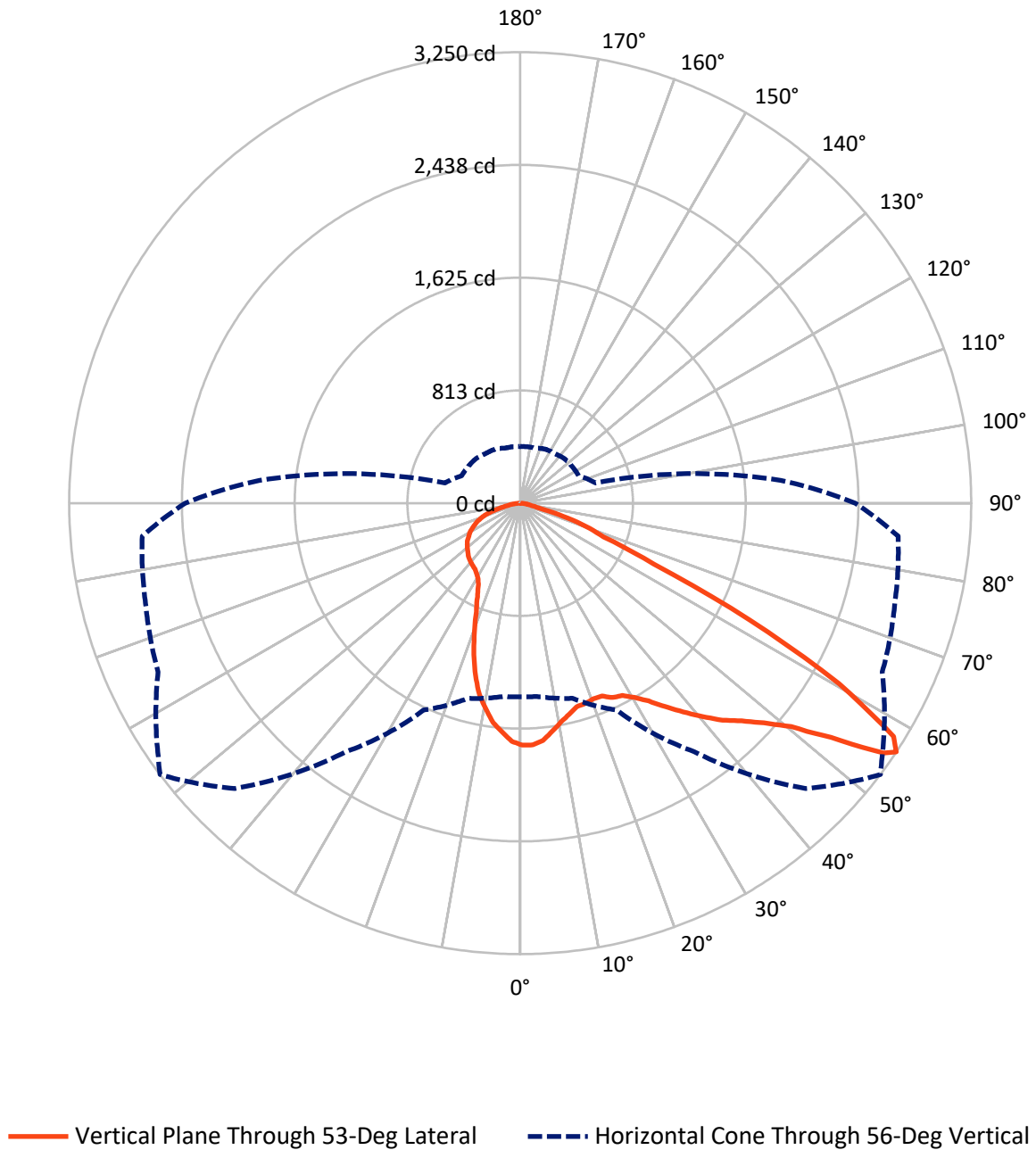


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1538.5	0.0	1538.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3733.5	0.0	3733.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	5272.0	0.0	5272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	2.9
10°-20°	385.6	7.3
20°-30°	568.7	10.8
30°-40°	812.5	15.4
40°-50°	1118.3	21.2
50°-60°	1321.6	25.1
60°-70°	704.3	13.4
70°-80°	178.7	3.4
80°-90°	27.9	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°	5272.0	100.0
0°-180°	5272.0	100.0

Coefficient of Utilization



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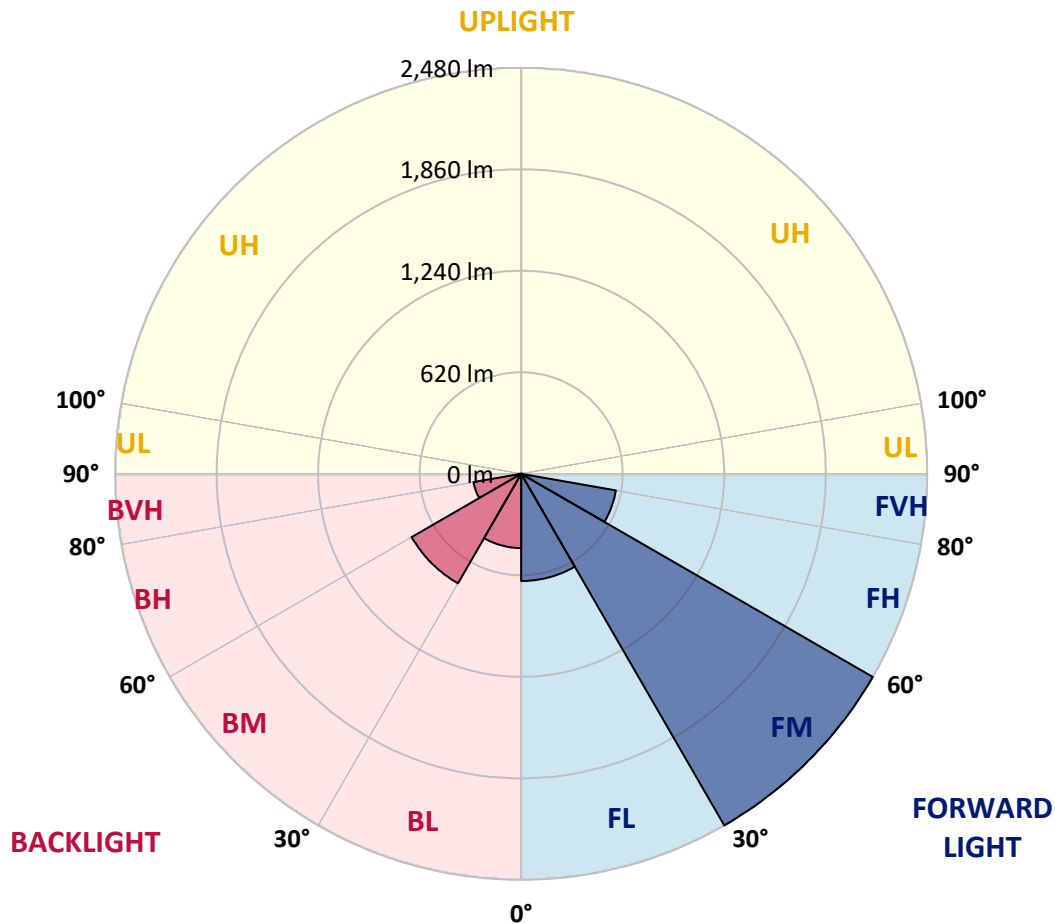
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.0	12.4			
FM	(30°-60°)	2479.8	47.0			
FH	(60°-80°)	587.5	11.1			G0/660
FVH	(80°-90°)	11.2	0.2			G1/100
BL	(0°-30°)	453.8	8.6	B1/500		
BM	(30°-60°)	772.6	14.7	B1/1000		
BH	(60°-80°)	295.5	5.6	B1/500		G1/500
BVH	(80°-90°)	16.7	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°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1722.5	1707.7	1716.5	1713.1	1740.8	1748.9	1744.9	1748.2	1763.8	1756.4	1740.8
5°	1609.6	1630.6	1634.6	1644.8	1661.0	1692.8	1717.8	1724.6	1732.0	1766.5	1763.1
7.5°	1506.8	1521.0	1513.6	1543.3	1578.5	1629.9	1660.3	1665.7	1734.0	1753.0	1767.2
10°	1441.9	1427.7	1461.5	1469.6	1509.5	1568.3	1604.9	1627.2	1689.4	1764.5	1773.3
12.5°	1381.7	1377.0	1397.2	1420.2	1464.9	1525.7	1562.9	1571.7	1667.8	1746.9	1788.1
15°	1337.1	1331.6	1351.9	1368.8	1420.9	1475.0	1522.4	1547.4	1644.1	1736.7	1775.3
17.5°	1301.9	1301.2	1312.7	1343.1	1396.6	1441.9	1518.3	1519.7	1631.9	1752.3	1786.1
20°	1299.9	1299.2	1301.2	1335.0	1383.7	1439.2	1505.5	1517.6	1631.9	1741.5	1786.8
22.5°	1316.8	1305.9	1318.1	1339.8	1374.9	1443.9	1510.2	1537.2	1671.1	1794.9	1817.2
25°	1343.8	1346.5	1353.3	1360.7	1381.0	1454.7	1552.1	1574.4	1717.1	1840.9	1859.2
27.5°	1393.2	1391.8	1394.5	1398.6	1416.2	1464.9	1569.0	1626.5	1813.2	1922.7	1904.5
30°	1465.5	1460.8	1471.6	1485.8	1469.6	1497.3	1625.2	1668.4	1902.4	2005.2	1955.2
32.5°	1531.1	1548.7	1569.0	1575.1	1555.5	1560.9	1699.5	1743.5	1976.8	2106.7	2017.4
35°	1613.0	1627.2	1654.2	1673.2	1669.8	1653.6	1801.0	1859.2	2084.4	2181.1	2083.0
37.5°	1692.8	1709.7	1754.3	1810.5	1779.4	1771.9	1909.2	1957.2	2117.5	2221.0	2131.0
40°	1821.3	1820.6	1897.7	1926.8	1954.5	1941.7	2021.5	2037.7	2135.1	2212.2	2132.4
42.5°	1972.1	1962.6	2041.1	2086.4	2122.2	2123.6	2138.5	2133.1	2143.2	2167.6	2118.2
45°	2115.5	2135.8	2214.9	2296.0	2331.9	2336.0	2237.2	2227.1	2157.4	2154.7	2091.1
47.5°	2290.6	2295.4	2360.3	2467.2	2550.3	2521.9	2365.0	2342.7	2219.6	2240.6	2136.4
50°	2300.8	2336.0	2394.1	2519.9	2775.5	2768.1	2530.7	2488.8	2319.7	2362.3	2262.9
52.5°	2088.4	2080.3	2149.3	2354.9	2758.6	3012.9	2805.3	2705.2	2534.8	2502.3	2467.8
55°	1591.3	1610.3	1671.1	1878.8	2395.5	3016.3	3179.3	3097.5	2764.7	2709.3	2669.4
56°	1395.9	1398.6	1456.1	1645.4	2185.8	2908.8	3250.3	3184.0	2879.0	2794.5	2733.6
57.5°	1157.2	1141.6	1171.4	1274.8	1845.0	2681.5	3172.5	3237.5	3012.9	2886.5	2801.9
60°	911.0	907.6	895.4	914.4	1165.9	2020.1	2641.0	2787.0	2999.4	2799.9	2683.6
62.5°	743.9	727.0	751.4	778.4	810.2	1253.2	1855.8	1941.7	2381.3	2235.2	2016.1
65°	576.9	568.8	599.2	687.1	706.1	796.0	1057.1	1123.3	1406.0	1381.0	1216.0
67.5°	397.0	398.3	424.7	558.6	654.7	646.5	647.2	681.7	733.8	545.1	474.8
70°	251.6	250.9	265.1	359.8	526.8	532.3	505.2	495.1	469.4	284.0	301.0
72.5°	161.6	156.9	164.3	198.8	272.6	315.2	324.6	330.7	271.9	223.2	242.1
75°	91.3	86.6	83.9	92.7	107.5	124.4	136.6	140.7	157.6	169.1	179.2
77.5°	27.7	25.0	30.4	40.6	53.4	71.7	87.2	89.9	106.2	119.7	129.9
80°	12.2	13.5	18.9	27.1	37.9	50.7	61.5	65.6	76.4	86.6	89.3
82.5°	7.4	8.1	12.8	18.3	26.4	35.8	44.0	45.3	56.1	64.2	66.3
85°	2.7	3.4	6.8	10.8	16.9	23.0	23.0	25.0	23.0	23.0	25.0
87.5°	0.0	0.0	0.7	1.4	1.4	2.0	2.7	2.7	3.4	4.1	4.7
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°	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1748.9	1745.5	1740.1	1720.5	1718.5	1712.4	1678.6	1673.2	1678.6	1662.4	1663.7
5°	1745.5	1755.7	1715.1	1695.5	1659.0	1632.6	1602.2	1586.6	1558.9	1541.3	1560.9
7.5°	1760.4	1756.4	1705.6	1663.0	1608.2	1541.3	1487.9	1457.4	1408.7	1395.2	1405.4
10°	1755.0	1733.4	1673.8	1617.7	1514.2	1455.4	1368.8	1285.0	1239.0	1215.3	1211.9
12.5°	1747.6	1741.5	1642.1	1545.4	1436.5	1312.7	1191.0	1111.8	1036.8	1004.3	1009.0
15°	1756.4	1705.0	1582.5	1460.1	1315.4	1153.1	1021.9	919.8	867.7	846.7	846.7
17.5°	1752.3	1687.4	1554.1	1364.8	1181.5	989.4	845.4	783.8	762.2	762.2	768.3
20°	1754.3	1698.9	1496.7	1269.4	1023.2	833.2	728.4	706.1	715.5	718.9	722.3
22.5°	1765.8	1661.0	1440.5	1164.6	876.5	712.8	661.4	662.1	679.0	697.3	693.9
25°	1780.0	1646.1	1372.2	1060.4	764.2	654.0	637.8	635.7	648.6	658.0	659.4
27.5°	1767.9	1620.4	1302.6	930.6	672.2	614.8	611.4	612.7	616.8	635.7	629.6
30°	1807.8	1627.9	1215.3	821.7	621.5	601.9	597.9	595.8	601.9	607.3	602.6
32.5°	1857.1	1601.5	1150.4	716.9	596.5	592.4	584.3	581.6	585.0	579.6	582.3
35°	1878.8	1596.8	1065.9	641.8	576.9	573.5	568.8	568.1	568.8	564.0	560.0
37.5°	1890.9	1619.1	969.1	607.3	564.7	568.1	557.3	555.9	543.7	546.5	548.5
40°	1911.9	1584.6	890.7	574.2	557.3	550.5	541.0	539.0	530.9	526.2	530.9
42.5°	1881.5	1574.4	813.6	560.0	546.5	539.0	532.3	520.8	518.0	514.0	511.3
45°	1857.1	1516.3	744.6	542.4	533.6	529.5	516.7	504.5	494.4	498.4	492.3
47.5°	1875.4	1496.0	676.3	527.5	516.0	511.3	498.4	489.0	478.8	474.1	472.7
50°	1948.4	1533.9	618.8	516.7	501.1	498.4	481.5	470.7	461.2	457.9	459.2
52.5°	2122.9	1637.3	579.6	494.4	486.9	474.8	465.3	451.8	445.7	434.9	441.6
55°	2344.1	1805.7	569.4	473.4	469.4	458.5	445.7	435.5	424.0	415.3	413.2
56°	2415.1	1886.2	561.3	465.3	458.5	452.4	435.5	429.5	411.2	409.2	407.8
57.5°	2472.6	1957.2	562.7	449.7	443.0	437.6	427.4	412.5	400.4	392.9	396.3
60°	2342.7	1832.1	537.0	426.1	424.7	414.6	400.4	393.6	378.7	369.9	367.9
62.5°	1741.5	1243.7	435.5	395.6	395.0	384.1	367.9	360.5	357.8	345.6	345.6
65°	1003.0	779.8	376.7	370.6	365.2	354.4	338.2	332.1	325.3	321.2	317.9
67.5°	428.1	404.4	342.2	341.5	335.4	321.9	305.7	296.2	287.4	279.3	283.4
70°	310.4	315.2	309.1	305.7	298.2	281.3	267.1	255.6	242.1	236.7	240.8
72.5°	246.2	256.3	265.1	265.8	257.0	237.4	221.8	206.3	191.4	184.0	187.3
75°	186.7	193.4	202.2	204.2	191.4	177.9	163.0	146.8	135.3	126.5	127.8
77.5°	134.6	133.2	141.3	140.0	133.9	124.4	110.9	96.0	83.2	75.1	75.7
80°	92.0	94.0	98.7	98.1	90.6	84.5	74.4	62.2	52.8	46.0	44.6
82.5°	64.2	67.6	71.7	68.3	62.2	56.1	48.7	39.9	32.5	27.1	25.7
85°	23.0	26.4	30.4	32.5	34.5	33.1	27.7	22.3	16.2	13.5	12.8
87.5°	4.7	5.4	6.1	6.1	6.1	5.4	4.7	4.7	4.1	2.0	2.0
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)