

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: P522670

Luminaire Tested: **GALN-SA2C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13180 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

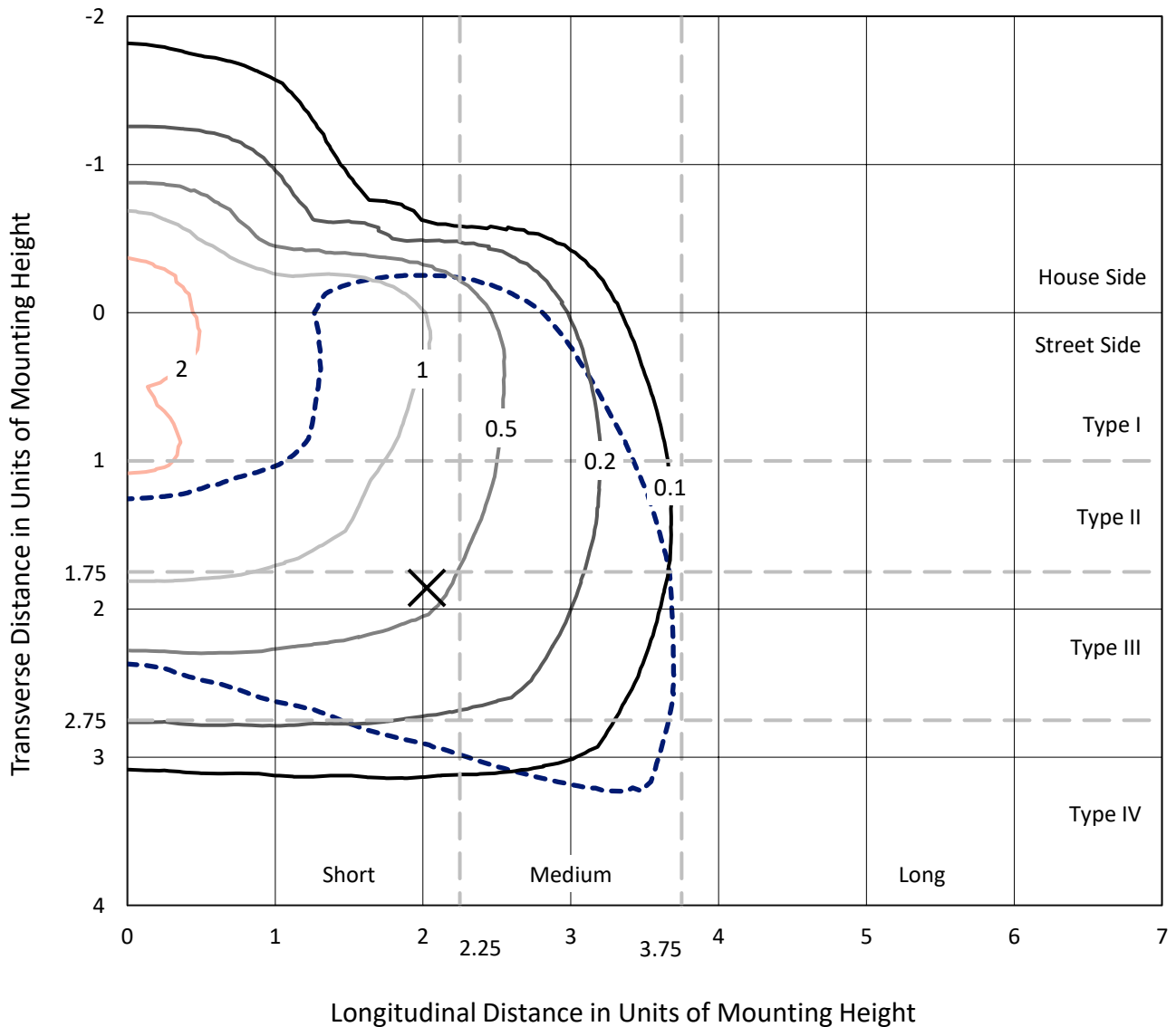
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

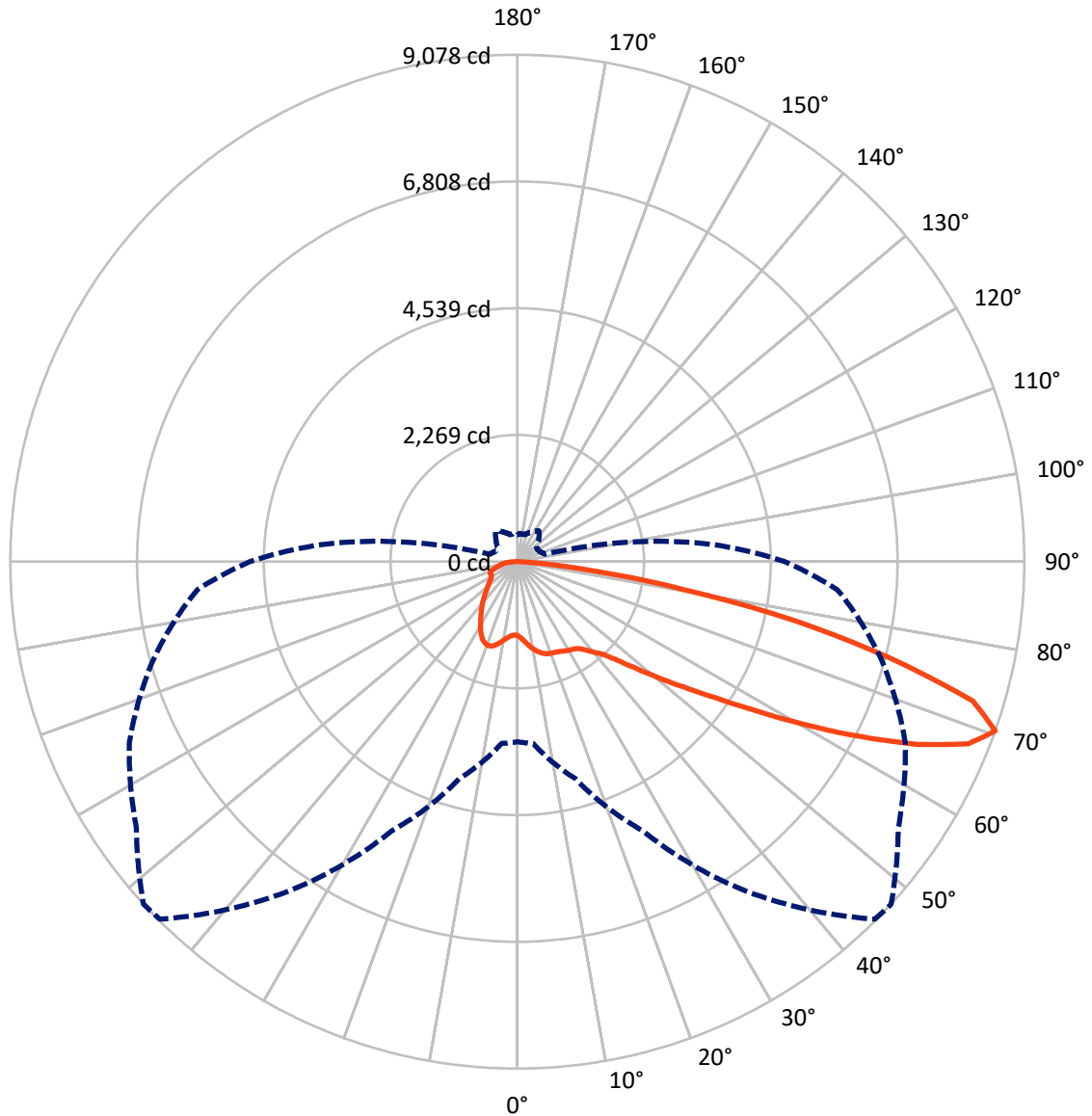
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.2	0.0	2984.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10195.8	0.0	10195.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	13180.0	0.0	13180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.0
10°-20°	455.9	3.5
20°-30°	758.2	5.8
30°-40°	1074.7	8.2
40°-50°	1586.5	12.0
50°-60°	2747.8	20.8
60°-70°	3881.4	29.4
70°-80°	2231.2	16.9
80°-90°	307.9	2.3
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°	13180.0	100.0
0°-180°	13180.0	100.0

Coefficient of Utilization



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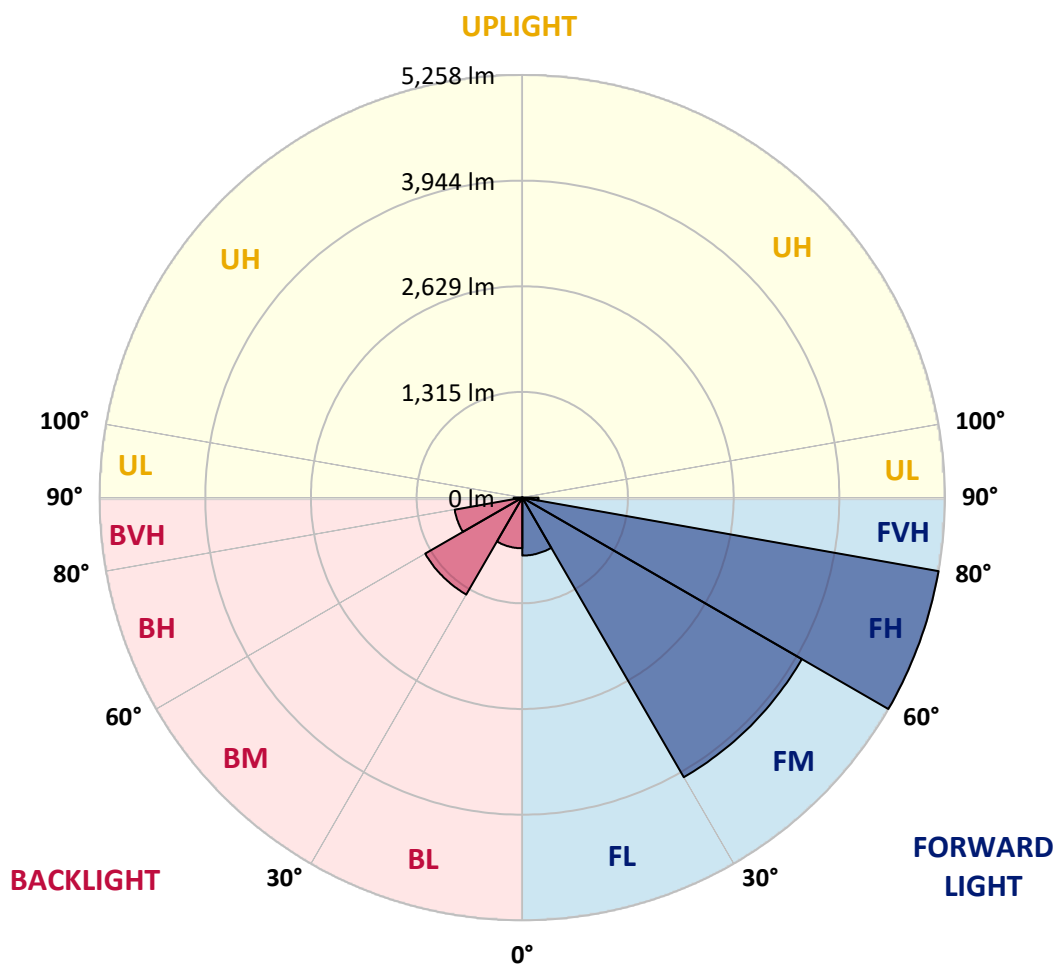
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	720.7	5.5			
FM	(30°-60°)	4015.7	30.5			
FH	(60°-80°)	5258.3	39.9			G3/7500
FVH	(80°-90°)	201.1	1.5			G2/225
BL	(0°-30°)	629.8	4.8	B2/1000		
BM	(30°-60°)	1393.3	10.6	B2/2500		
BH	(60°-80°)	854.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	106.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1
2.5°	1408.5	1403.5	1402.8	1392.2	1386.6	1376.0	1371.8	1361.9	1349.9	1337.9	1326.6
5°	1519.2	1519.2	1514.2	1499.4	1476.2	1452.2	1441.6	1422.6	1388.7	1361.2	1337.9
7.5°	1632.7	1634.1	1624.3	1602.4	1569.3	1530.5	1520.6	1492.4	1444.4	1404.2	1369.7
10°	1730.8	1730.8	1717.4	1687.7	1646.1	1603.8	1593.9	1562.2	1508.6	1458.5	1413.4
12.5°	1805.5	1805.5	1787.9	1749.1	1704.0	1665.9	1654.6	1624.3	1574.2	1518.5	1461.3
15°	1854.2	1850.7	1830.9	1787.2	1743.5	1710.3	1702.6	1677.2	1631.3	1574.9	1510.7
17.5°	1856.3	1854.9	1835.9	1799.2	1761.1	1738.5	1733.6	1716.7	1680.7	1627.1	1559.4
20°	1815.4	1818.2	1805.5	1779.4	1761.1	1751.2	1749.1	1743.5	1718.1	1668.0	1600.3
22.5°	1771.7	1776.6	1764.6	1750.5	1749.1	1759.0	1760.4	1761.8	1745.6	1696.9	1634.8
25°	1761.1	1764.6	1752.6	1739.9	1747.7	1773.8	1779.4	1785.1	1772.4	1731.5	1675.8
27.5°	1814.7	1811.9	1788.6	1761.1	1766.0	1801.3	1809.1	1815.4	1809.1	1773.8	1726.5
30°	1966.3	1957.2	1910.6	1830.2	1804.8	1829.5	1837.3	1854.9	1854.9	1828.8	1781.5
32.5°	2220.2	2202.6	2117.3	1959.3	1871.1	1856.3	1864.1	1893.0	1907.8	1887.3	1835.9
35°	2528.4	2510.1	2388.1	2175.8	1992.4	1909.9	1907.8	1940.2	1979.7	1933.9	1866.9
37.5°	2838.1	2819.0	2672.3	2433.9	2169.5	2022.8	2010.1	2021.3	2038.3	1954.3	1909.9
40°	3147.7	3125.1	2996.8	2722.4	2386.0	2172.3	2139.1	2088.3	2081.3	2021.3	1993.1
42.5°	3454.5	3434.0	3369.1	3046.1	2645.5	2318.3	2267.5	2180.0	2206.8	2170.9	2146.2
45°	3764.1	3765.5	3696.4	3409.3	2958.7	2587.7	2519.3	2382.5	2445.9	2432.5	2446.6
47.5°	4038.5	4034.9	4010.2	3762.0	3347.3	2934.7	2846.5	2687.8	2796.5	2845.8	2953.7
50°	4304.4	4302.2	4303.6	4161.9	3798.7	3347.3	3250.0	3083.5	3328.2	3499.6	3692.9
52.5°	4685.2	4697.2	4611.9	4574.5	4347.4	3834.6	3727.4	3555.3	3956.6	4226.8	4604.1
55°	5067.5	5057.6	4990.6	5029.4	4921.5	4411.6	4299.4	4162.6	4656.3	4951.8	5518.8
57.5°	5292.5	5296.0	5364.4	5554.1	5630.3	5130.9	5029.4	4923.6	5442.7	5652.1	6332.7
60°	5494.9	5511.1	5707.9	6066.2	6272.8	6014.7	5924.4	5821.4	6164.2	6247.4	7039.4
62.5°	5558.3	5608.4	5951.9	6487.9	6899.1	7011.9	6899.8	6672.7	6851.1	6818.7	7518.3
65°	5241.7	5310.1	5925.8	6645.9	7458.4	7958.4	7887.2	7465.4	7436.5	7241.2	7596.6
67.5°	4408.0	4476.4	5267.1	6314.4	7689.7	8778.0	8706.7	8043.8	7792.0	7280.7	7004.2
70°	3225.3	3268.3	4024.4	5316.4	7224.9	9053.0	9077.7	8325.9	7665.0	6743.9	5750.9
72.5°	1858.4	1953.6	2483.3	3740.1	5902.5	8357.6	8529.0	7739.1	6862.4	5626.1	4020.8
75°	799.1	801.2	1148.2	2063.0	3997.6	6717.8	6883.6	6415.3	5389.1	3890.3	2146.9
77.5°	380.1	387.2	505.0	921.1	2200.5	4641.5	5088.6	4532.2	3446.7	1869.0	811.1
80°	246.8	251.8	308.9	457.0	1079.1	2691.4	3003.1	2614.5	1520.6	667.9	349.8
82.5°	149.5	150.9	206.6	279.3	593.8	1218.7	1436.7	1134.8	648.9	399.9	205.9
85°	91.0	91.7	125.5	172.8	360.4	421.1	432.3	428.8	380.9	261.7	110.0
87.5°	43.7	45.1	64.9	81.8	141.8	130.5	123.4	143.2	179.8	141.1	47.3
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°	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1	1323.1
2.5°	1321.7	1319.6	1314.6	1312.5	1311.1	1311.8	1311.1	1311.1	1311.8	1311.8	1311.8
5°	1328.1	1324.5	1316.8	1316.8	1321.0	1330.9	1340.0	1347.1	1354.9	1354.1	1354.1
7.5°	1355.6	1349.2	1340.0	1342.9	1353.4	1369.0	1385.2	1400.7	1416.2	1417.6	1416.9
10°	1395.8	1389.4	1379.5	1383.1	1400.0	1423.3	1443.7	1466.3	1483.2	1488.1	1486.7
12.5°	1441.6	1428.9	1420.4	1430.3	1457.1	1488.1	1507.9	1524.8	1536.8	1543.9	1541.0
15°	1488.1	1476.2	1466.3	1486.7	1519.2	1548.1	1558.0	1560.8	1562.9	1570.0	1568.6
17.5°	1533.3	1517.1	1513.5	1540.3	1571.4	1584.1	1578.4	1566.4	1557.3	1562.9	1562.2
20°	1573.5	1560.8	1559.4	1586.2	1598.2	1586.2	1562.2	1541.0	1524.8	1526.2	1525.5
22.5°	1611.6	1601.7	1603.1	1614.4	1595.4	1554.4	1515.0	1486.0	1468.4	1471.9	1474.0
25°	1653.9	1644.0	1647.5	1629.2	1566.4	1495.2	1438.1	1413.4	1406.3	1413.4	1418.3
27.5°	1708.9	1702.6	1700.4	1629.9	1515.0	1407.7	1342.9	1333.7	1340.0	1355.6	1363.3
30°	1768.1	1768.1	1756.9	1617.9	1444.4	1302.7	1246.2	1247.6	1269.5	1291.4	1299.1
32.5°	1825.3	1837.3	1802.0	1585.5	1353.4	1200.4	1157.4	1158.8	1177.8	1204.6	1211.7
35°	1872.5	1907.1	1840.8	1526.2	1246.2	1114.3	1081.9	1062.9	1063.6	1084.0	1089.7
37.5°	1937.4	2001.6	1863.4	1438.1	1132.0	1041.0	1004.3	971.2	949.3	940.8	940.8
40°	2050.3	2144.8	1869.0	1307.6	1024.1	971.2	919.0	879.5	837.2	799.1	792.0
42.5°	2241.4	2360.6	1857.7	1157.4	926.7	894.3	843.5	794.9	736.3	682.7	678.5
45°	2579.9	2641.3	1827.4	1001.5	840.0	820.2	770.9	718.0	655.9	608.0	604.4
47.5°	3122.3	3035.5	1787.2	863.3	761.0	755.4	717.3	655.9	593.8	560.7	557.2
50°	3914.3	3656.2	1781.5	763.1	697.5	700.3	669.3	612.9	558.6	531.1	526.8
52.5°	4867.9	4405.9	1818.9	692.6	641.8	652.4	636.9	584.7	536.7	513.4	509.2
55°	5793.2	5080.2	1841.5	637.6	589.6	609.4	611.5	567.8	524.0	500.8	497.9
57.5°	6544.3	5588.0	1741.3	587.5	544.5	574.8	590.3	557.9	517.7	500.0	497.2
60°	7066.9	5827.8	1456.4	543.1	511.3	547.3	582.6	558.6	533.2	535.3	536.7
62.5°	7233.4	5721.3	1092.5	509.9	488.8	538.1	595.3	587.5	561.4	577.6	580.4
65°	6957.6	5281.2	792.0	483.8	469.0	544.5	633.3	608.7	551.5	563.5	563.5
67.5°	6034.4	4549.8	616.4	459.8	446.4	556.5	671.4	606.5	528.3	542.4	529.7
70°	4786.8	3519.4	513.4	433.0	422.5	538.8	675.0	584.7	500.8	503.6	479.6
72.5°	3176.6	2314.0	441.5	407.7	385.8	484.5	646.0	556.5	474.0	457.7	433.7
75°	1556.6	1153.8	385.1	375.9	337.8	421.8	606.5	529.7	445.0	419.6	406.2
77.5°	603.0	490.9	328.7	335.7	294.1	371.7	554.4	491.6	406.9	372.4	361.8
80°	292.7	278.6	269.4	280.0	241.9	316.7	506.4	458.4	371.7	333.6	318.1
82.5°	182.0	172.1	206.6	217.9	186.2	289.2	480.3	430.2	327.3	276.5	263.8
85°	92.4	98.7	138.2	148.8	133.3	229.9	395.7	323.0	236.3	196.1	197.5
87.5°	35.3	47.3	72.6	78.3	71.2	121.3	217.9	188.3	151.6	103.0	95.2
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)