

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: P452242

Luminaire Tested: **GALN-SA3A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452242
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-SA3A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10758 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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



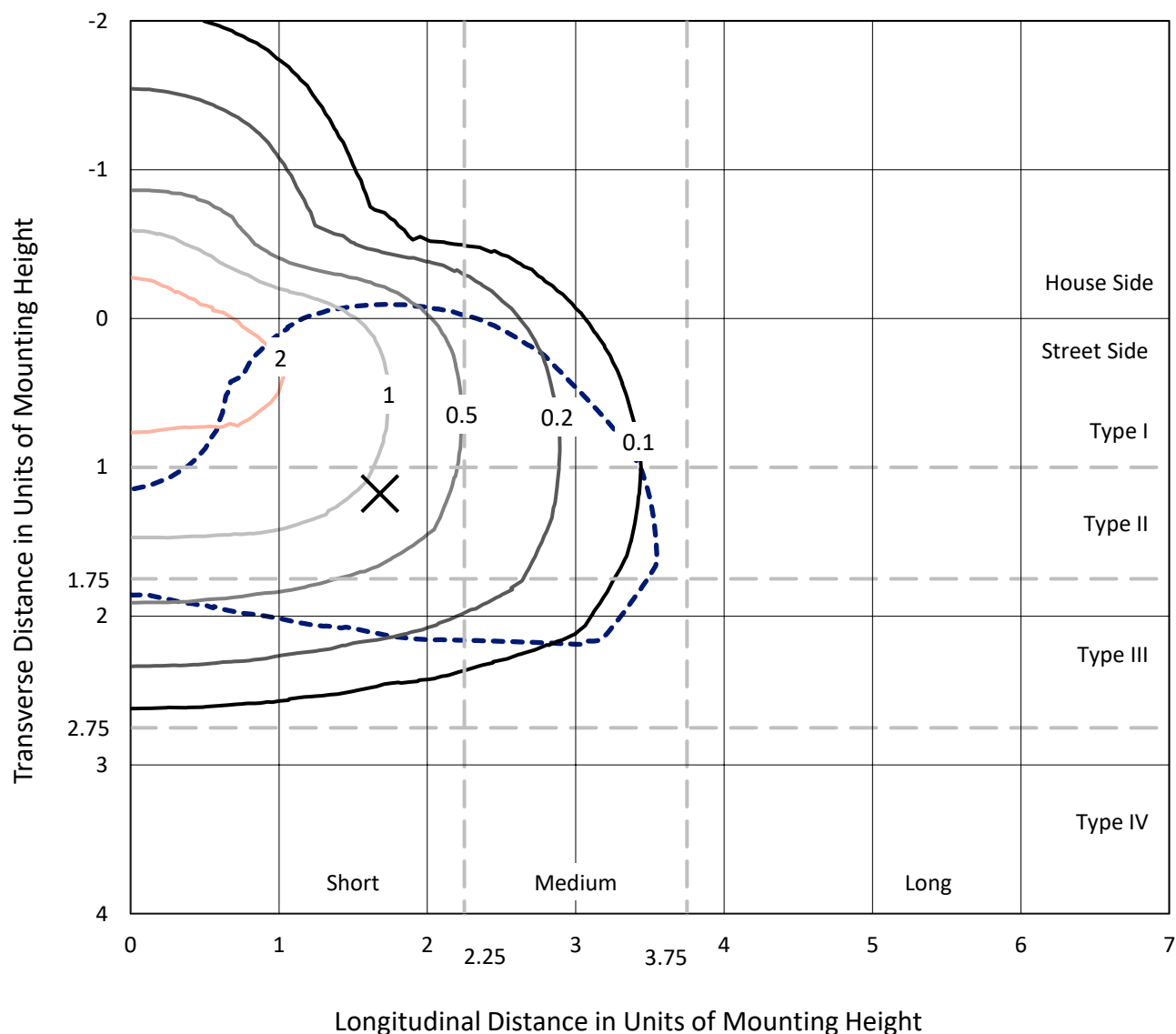
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

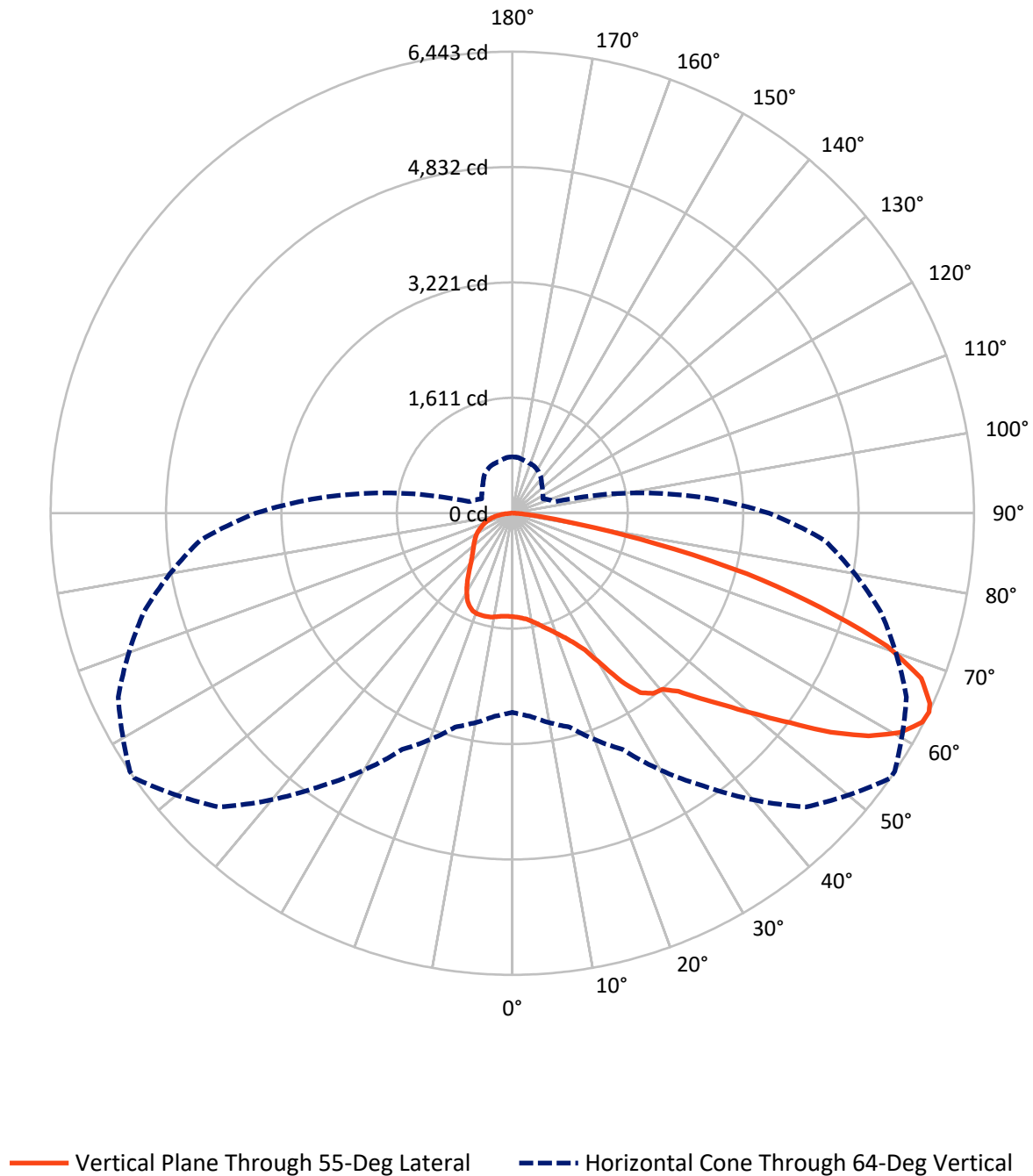


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.3	0.0	2613.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8144.7	0.0	8144.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	10758.0	0.0	10758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.3
10°-20°	443.0	4.1
20°-30°	788.7	7.3
30°-40°	1213.5	11.3
40°-50°	1720.2	16.0
50°-60°	2490.0	23.1
60°-70°	2576.8	24.0
70°-80°	1206.7	11.2
80°-90°	178.7	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°	10758.0	100.0
0°-180°	10758.0	100.0

Coefficient of Utilization



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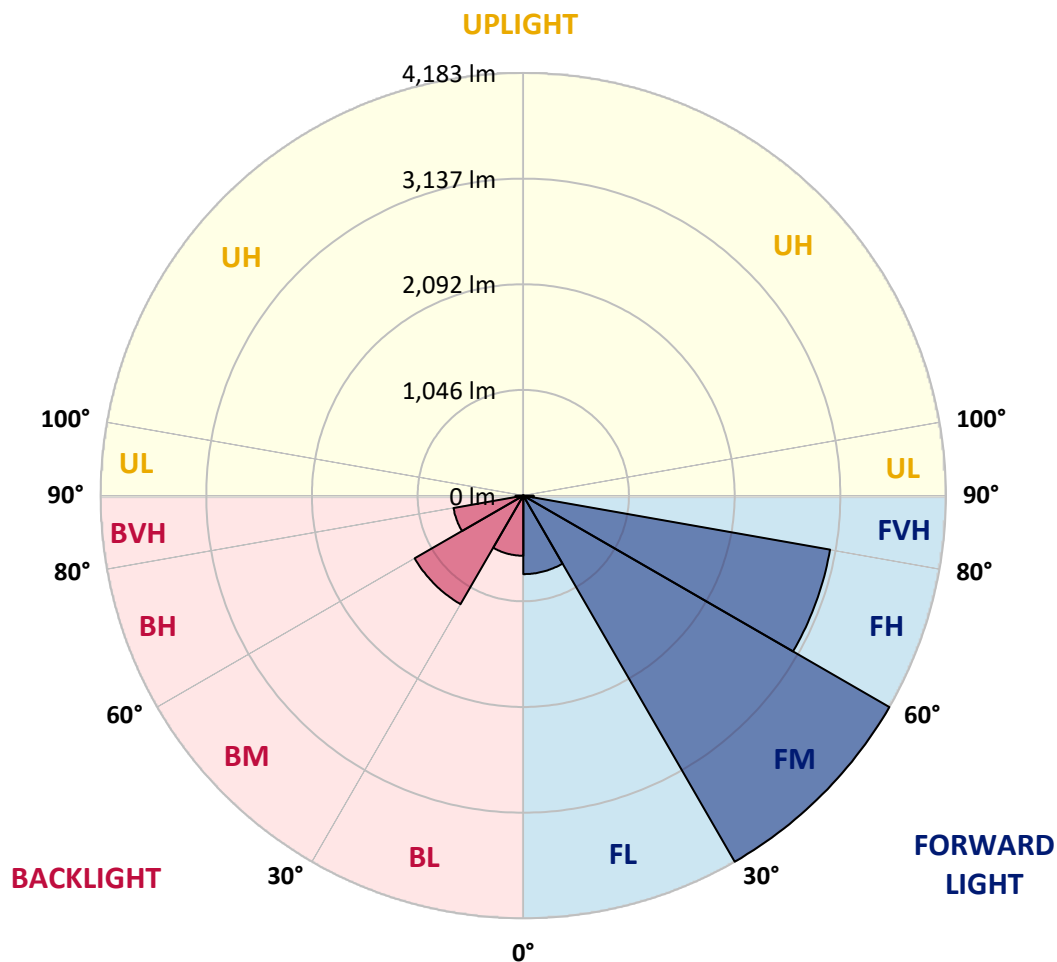
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.9	7.2			
FM	(30°-60°)	4183.0	38.9			
FH	(60°-80°)	3082.5	28.7			G2/5000
FVH	(80°-90°)	102.3	1.0			G2/225
BL	(0°-30°)	595.2	5.5	B2/1000		
BM	(30°-60°)	1240.7	11.5	B2/2500		
BH	(60°-80°)	701.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	76.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4
2.5°	1459.6	1459.0	1460.8	1459.0	1460.2	1456.0	1454.2	1455.4	1453.6	1450.6	1445.2
5°	1477.6	1477.0	1477.6	1475.2	1476.4	1474.0	1469.8	1471.0	1468.0	1461.4	1453.6
7.5°	1508.2	1505.8	1505.8	1505.2	1502.8	1499.2	1496.2	1495.0	1492.0	1483.6	1471.6
10°	1547.7	1547.7	1548.3	1543.5	1546.5	1539.9	1536.9	1536.3	1526.2	1515.4	1498.6
12.5°	1599.9	1602.9	1601.1	1598.7	1597.5	1595.1	1584.9	1587.3	1575.9	1557.3	1536.9
15°	1664.7	1669.5	1666.5	1665.3	1662.3	1653.3	1649.1	1647.3	1632.3	1605.3	1578.3
17.5°	1750.4	1744.4	1742.0	1739.0	1726.4	1719.8	1712.6	1711.5	1698.3	1666.5	1624.5
20°	1825.4	1833.8	1829.0	1826.0	1813.4	1800.8	1795.4	1793.6	1782.2	1747.4	1680.3
22.5°	1914.7	1916.5	1918.3	1911.1	1905.1	1895.5	1886.0	1883.0	1878.8	1842.8	1760.6
25°	2010.1	2017.3	2011.3	2004.1	1996.9	1996.3	2005.3	2004.1	2002.3	1967.5	1867.4
27.5°	2165.4	2172.0	2173.8	2166.0	2138.4	2140.8	2161.2	2167.8	2195.4	2137.8	2004.7
30°	2252.9	2259.5	2274.5	2303.9	2347.7	2386.1	2435.2	2450.2	2476.6	2368.1	2167.8
32.5°	2306.9	2309.3	2336.3	2390.9	2522.2	2665.5	2799.2	2804.6	2821.4	2669.1	2317.1
35°	2392.1	2393.9	2415.5	2475.4	2629.5	2868.2	3075.1	3081.7	3067.9	2762.7	2386.7
37.5°	2497.0	2501.8	2515.6	2565.4	2749.5	3037.9	3189.6	3184.8	3062.5	2837.0	2509.6
40°	2649.9	2649.9	2633.7	2700.9	2876.0	3135.1	3229.8	3221.4	3189.0	3052.3	2696.7
42.5°	2784.9	2782.5	2820.8	2866.4	3034.3	3285.0	3398.3	3412.1	3465.5	3322.8	2909.6
45°	2960.6	2971.4	2992.9	3075.7	3303.6	3541.0	3687.4	3700.5	3776.1	3641.2	3158.4
47.5°	3138.1	3141.7	3209.4	3319.8	3637.0	3888.2	4008.2	4029.8	4098.7	4013.6	3426.5
50°	3264.0	3298.2	3406.7	3580.6	3980.6	4311.6	4405.2	4430.9	4552.7	4418.9	3738.9
52.5°	3397.1	3430.7	3563.2	3828.3	4375.2	4744.6	4859.7	4877.1	5003.6	4829.1	4058.5
55°	3511.1	3542.2	3692.8	4047.8	4689.4	5186.5	5395.2	5374.8	5435.4	5145.1	4305.0
57.5°	3529.6	3554.8	3744.3	4188.1	4925.7	5565.5	5864.7	5876.7	5806.6	5381.4	4508.3
60°	3385.7	3437.3	3655.0	4173.1	5031.8	5829.4	6215.0	6223.3	6024.3	5502.5	4589.3
62.5°	3130.9	3125.5	3388.7	3932.0	4883.1	5889.3	6421.2	6412.2	6109.4	5444.4	4510.7
64°	2778.9	2843.6	3089.5	3635.8	4643.2	5797.0	6442.8	6438.0	6068.6	5323.2	4377.0
65°	2564.2	2560.6	2803.4	3393.5	4404.6	5657.9	6404.4	6397.8	5983.5	5214.7	4273.2
67.5°	1851.2	1859.6	2099.4	2618.7	3580.6	5114.0	6154.4	6129.8	5647.7	4854.9	3878.6
70°	1121.4	1126.2	1314.5	1737.2	2570.2	4134.1	5547.5	5548.7	5133.8	4317.6	3301.2
72.5°	590.7	603.3	678.8	986.5	1560.9	2900.6	4500.5	4607.2	4407.6	3685.0	2608.0
75°	328.6	330.4	383.8	486.3	796.4	1623.3	3382.7	3413.3	3489.5	2966.0	1928.5
77.5°	250.7	254.3	271.0	314.2	433.6	752.6	2047.3	2200.8	2459.2	2091.0	1100.4
80°	203.3	206.9	221.3	247.1	288.4	356.8	951.1	1033.8	1316.3	928.3	429.4
82.5°	158.3	155.9	174.5	191.3	209.9	211.1	390.4	431.8	536.1	399.4	185.9
85°	117.5	117.5	132.5	128.9	135.5	123.5	172.1	190.1	214.7	169.7	86.4
87.5°	46.8	51.6	87.0	78.0	60.6	48.6	63.6	67.2	74.4	66.6	36.0
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°	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4
2.5°	1445.8	1447.6	1443.4	1440.4	1439.2	1437.4	1435.6	1436.2	1438.6	1441.0	1440.4
5°	1453.0	1453.6	1446.4	1442.8	1440.4	1438.0	1438.0	1439.8	1444.6	1448.2	1448.2
7.5°	1471.0	1471.0	1460.8	1454.2	1450.6	1446.4	1445.2	1445.8	1449.4	1454.2	1454.8
10°	1499.2	1496.8	1483.6	1473.4	1466.8	1456.6	1447.6	1442.8	1444.6	1447.6	1447.6
12.5°	1533.3	1526.8	1510.0	1496.2	1480.0	1460.8	1442.2	1432.6	1432.0	1435.0	1433.8
15°	1569.9	1562.7	1539.3	1514.2	1486.0	1457.8	1435.6	1421.8	1411.0	1408.0	1414.6
17.5°	1612.5	1597.5	1565.1	1530.4	1488.4	1451.8	1417.0	1388.8	1369.6	1364.2	1366.0
20°	1664.1	1644.3	1600.5	1545.9	1486.6	1430.2	1376.2	1338.5	1307.3	1297.7	1298.9
22.5°	1735.4	1701.3	1637.1	1553.7	1471.6	1389.4	1314.5	1265.3	1227.5	1212.5	1221.5
25°	1816.4	1779.2	1671.9	1551.9	1432.6	1324.1	1241.3	1177.1	1143.0	1120.8	1125.6
27.5°	1927.9	1862.0	1709.1	1535.7	1376.8	1244.3	1148.4	1087.8	1056.6	1045.2	1050.6
30°	2070.7	1969.3	1749.2	1492.0	1288.7	1143.6	1054.8	1015.2	996.6	982.3	987.1
32.5°	2173.8	2044.9	1758.2	1418.2	1193.3	1051.8	991.2	961.9	941.5	927.7	930.7
35°	2247.6	2109.0	1754.0	1327.7	1093.8	976.3	940.9	916.9	883.9	853.9	848.5
37.5°	2346.5	2189.4	1723.4	1228.7	995.4	925.3	900.1	855.7	808.4	768.2	766.4
40°	2498.2	2283.5	1658.1	1112.4	911.5	887.5	856.9	799.4	748.4	716.0	713.6
42.5°	2654.7	2370.5	1569.3	990.1	842.5	847.9	810.8	753.8	722.6	701.6	699.2
45°	2846.0	2464.6	1473.4	883.9	791.6	810.8	770.6	737.6	719.0	705.2	701.6
47.5°	3052.9	2561.2	1365.4	788.6	748.4	776.6	753.8	738.8	728.6	719.0	714.8
50°	3276.0	2669.1	1264.1	711.8	709.4	741.2	752.0	746.6	740.6	737.6	734.0
52.5°	3520.6	2779.5	1178.9	657.8	675.2	716.0	752.6	756.8	756.8	755.0	752.6
55°	3686.2	2856.2	1092.6	614.1	640.4	695.6	751.4	767.6	773.6	771.2	768.8
57.5°	3808.5	2898.2	984.1	576.3	611.1	675.8	744.8	768.8	774.8	777.8	776.6
60°	3833.7	2859.2	841.9	536.7	579.3	647.0	720.8	750.8	758.6	777.2	779.0
62.5°	3720.3	2739.3	700.4	497.7	540.3	603.3	688.4	730.4	746.0	774.8	777.8
64°	3581.2	2605.0	621.9	473.1	515.1	578.7	672.2	725.0	745.4	783.8	786.2
65°	3479.3	2507.2	572.7	457.5	498.9	562.5	663.2	726.8	750.8	797.6	801.2
67.5°	3103.9	2170.8	473.7	421.0	460.5	534.9	665.0	741.8	749.6	803.0	802.4
70°	2568.4	1728.2	397.0	387.4	423.4	512.7	657.8	717.8	718.4	753.8	745.4
72.5°	1923.1	1277.3	344.2	352.6	382.0	459.9	621.3	685.4	675.2	680.0	671.6
75°	1321.1	844.9	296.2	315.4	338.8	406.6	569.7	622.5	606.3	600.3	594.3
77.5°	705.2	467.1	246.5	278.8	294.4	351.4	497.1	548.1	531.3	507.9	500.1
80°	285.4	220.1	198.5	230.9	239.9	283.0	413.8	445.6	433.0	392.2	379.0
82.5°	143.3	131.9	155.9	181.7	182.3	202.1	307.6	337.6	309.4	259.7	248.3
85°	75.0	77.4	107.3	127.7	112.7	109.1	184.7	204.5	187.7	163.1	146.9
87.5°	27.0	31.2	56.4	55.8	39.6	21.0	40.8	19.8	10.8	6.6	8.4
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)