

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: P527101

Luminaire Tested: **GALN-SA2A-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5593 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

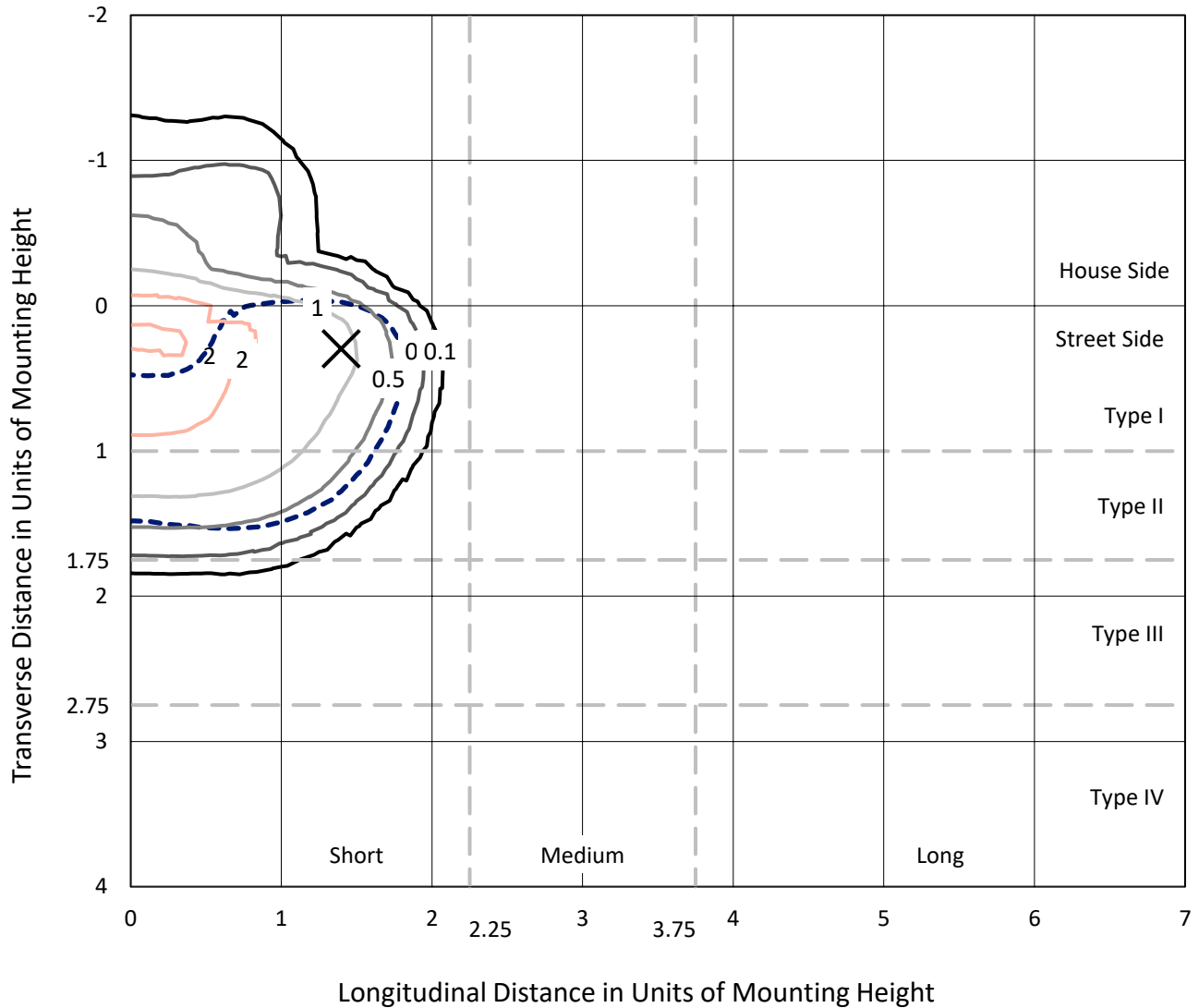
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

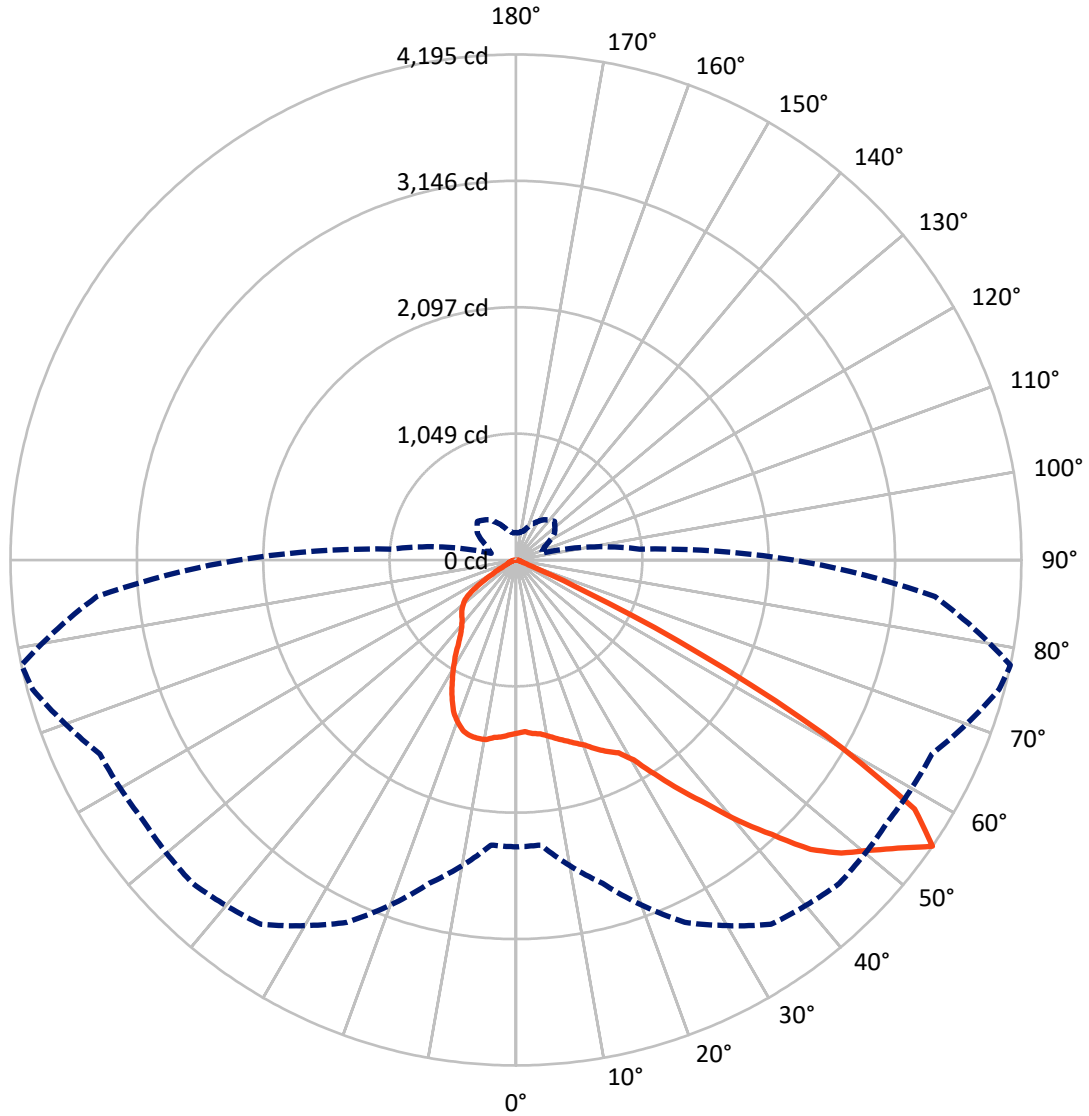
✕ Max cd
 - - - 1/2 Max cd



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 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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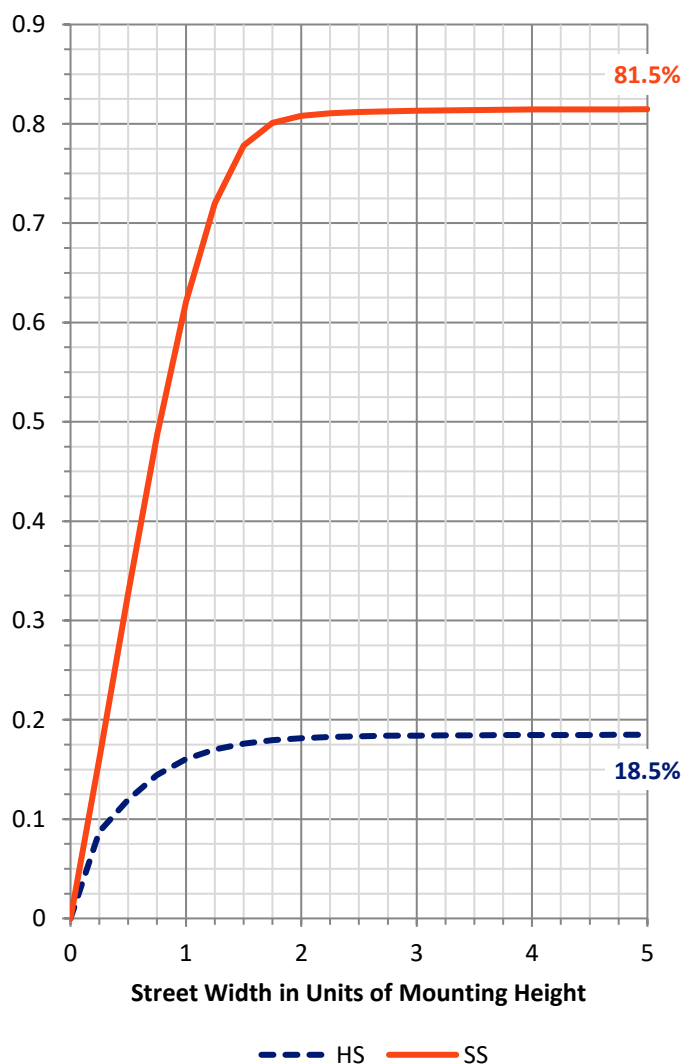
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.9	0.0	1038.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4554.2	0.0	4554.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	5593.0	0.0	5593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	2.3
10°-20°	339.3	6.1
20°-30°	594.8	10.6
30°-40°	980.7	17.5
40°-50°	1427.1	25.5
50°-60°	1617.1	28.9
60°-70°	462.4	8.3
70°-80°	35.9	0.6
80°-90°	7.5	0.1
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°	5593.0	100.0
0°-180°	5593.0	100.0

Coefficient of Utilization



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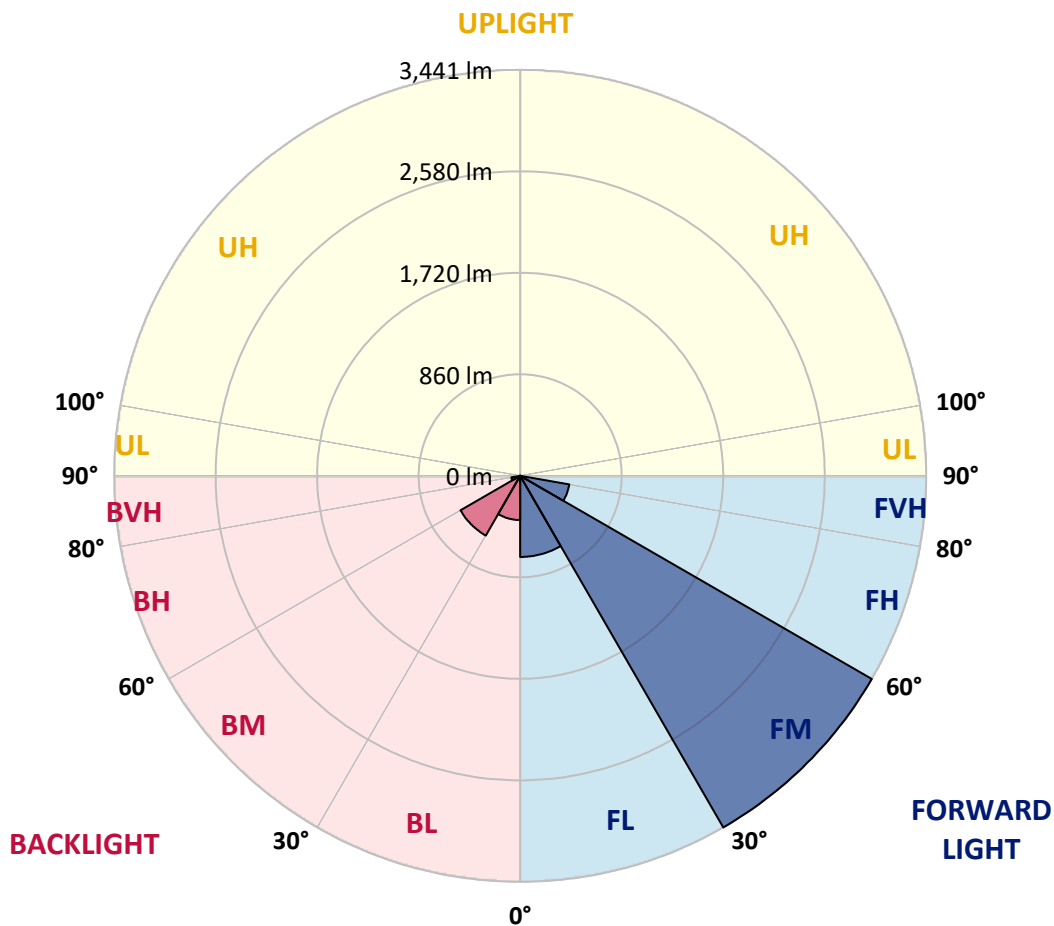
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.6	12.3			
FM (30°-60°)	3440.5	61.5			
FH (60°-80°)	422.4	7.6			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	374.8	6.7	B1/500		
BM (30°-60°)	584.4	10.4	B1/1000		
BH (60°-80°)	75.8	1.4	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1352.0	1365.0	1367.0	1383.0	1382.0	1409.0	1417.0	1418.0	1436.0	1427.0	1450.0
5°	1314.0	1307.0	1304.0	1332.0	1340.0	1364.0	1384.0	1396.0	1433.0	1446.0	1470.0
7.5°	1280.0	1280.0	1282.0	1307.0	1304.0	1335.0	1356.0	1393.0	1447.0	1458.0	1487.0
10°	1247.0	1235.0	1250.0	1276.0	1298.0	1312.0	1356.0	1391.0	1454.0	1486.0	1526.0
12.5°	1230.0	1236.0	1238.0	1257.0	1281.0	1323.0	1347.0	1405.0	1504.0	1523.0	1566.0
15°	1337.0	1325.0	1296.0	1279.0	1299.0	1319.0	1379.0	1438.0	1530.0	1557.0	1605.0
17.5°	1461.0	1451.0	1427.0	1381.0	1336.0	1373.0	1420.0	1474.0	1558.0	1598.0	1669.0
20°	1623.0	1607.0	1583.0	1493.0	1454.0	1414.0	1464.0	1528.0	1604.0	1640.0	1713.0
22.5°	1816.0	1816.0	1762.0	1653.0	1572.0	1534.0	1555.0	1592.0	1655.0	1704.0	1776.0
25°	2016.9	2010.9	1962.0	1849.0	1712.0	1667.0	1691.0	1717.0	1734.0	1761.0	1809.0
27.5°	2246.9	2211.9	2149.9	2024.9	1904.0	1817.0	1843.0	1820.0	1799.0	1813.0	1882.0
30°	2402.9	2424.9	2345.9	2225.9	2111.9	2014.9	2019.9	1999.9	1904.0	1924.0	1965.0
32.5°	2564.9	2578.9	2534.9	2468.9	2354.9	2241.9	2200.9	2183.9	2111.9	2120.9	2080.9
35°	2699.9	2726.9	2687.9	2658.9	2625.9	2534.9	2421.9	2476.9	2360.9	2338.9	2234.9
37.5°	2823.9	2815.9	2861.9	2831.9	2824.9	2760.9	2636.9	2647.9	2569.9	2564.9	2444.9
40°	2934.9	2936.9	2999.9	3013.9	2985.9	2871.9	2691.9	2778.9	2841.9	2847.9	2693.9
42.5°	3026.9	3053.9	3107.9	3220.9	3178.9	2988.9	2748.9	2843.9	3077.9	3114.9	2929.9
45°	3106.9	3161.9	3228.9	3329.9	3305.9	3154.9	2890.9	2977.9	3329.9	3426.9	3151.9
47.5°	3111.9	3183.9	3256.9	3406.9	3436.9	3243.9	3037.9	3189.9	3529.9	3634.9	3313.9
50°	3091.9	3129.9	3275.9	3438.9	3506.9	3388.9	3243.9	3367.9	3723.9	3789.9	3395.9
52.5°	2854.9	2883.9	3176.9	3468.9	3632.9	3552.9	3516.9	3615.9	3921.9	3970.9	3472.9
55°	2379.9	2374.9	2777.9	3317.9	3690.9	3795.9	3773.9	3808.9	4150.9	4194.9	3491.9
57.5°	1628.0	1719.0	2066.9	2762.9	3335.9	3738.9	3761.9	3703.9	3883.9	3900.9	3043.9
60°	878.0	916.0	1196.0	1844.0	2539.9	3046.9	3106.9	3001.9	2987.9	2939.9	2172.9
62.5°	349.0	368.0	527.0	913.0	1384.0	1852.0	1980.9	1938.0	1846.0	1720.0	1125.0
65°	166.0	178.0	262.0	427.0	614.0	772.0	901.0	941.0	694.0	625.0	371.0
67.5°	113.0	122.0	191.0	244.0	219.0	229.0	298.0	277.0	163.0	139.0	103.0
70°	86.0	92.0	153.0	166.0	98.0	69.0	77.0	72.0	67.0	68.0	67.0
72.5°	61.0	66.0	112.0	98.0	43.0	32.0	41.0	49.0	49.0	49.0	48.0
75°	37.0	42.0	65.0	38.0	17.0	17.0	26.0	33.0	35.0	36.0	34.0
77.5°	19.0	24.0	22.0	11.0	11.0	13.0	19.0	23.0	25.0	25.0	24.0
80°	4.0	4.0	4.0	6.0	11.0	14.0	19.0	21.0	24.0	24.0	22.0
82.5°	0.0	1.0	3.0	6.0	10.0	13.0	18.0	21.0	24.0	25.0	23.0
85°	0.0	1.0	2.0	4.0	7.0	8.0	7.0	6.0	6.0	6.0	6.0
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1452.0	1455.0	1450.0	1449.0	1445.0	1457.0	1428.0	1421.0	1439.0	1422.0	1426.0
5°	1471.0	1478.0	1469.0	1454.0	1432.0	1398.0	1369.0	1331.0	1313.0	1300.0	1298.0
7.5°	1485.0	1490.0	1481.0	1433.0	1367.0	1281.0	1217.0	1170.0	1133.0	1122.0	1104.0
10°	1542.0	1543.0	1498.0	1392.0	1263.0	1150.0	1052.0	980.0	943.0	920.0	910.0
12.5°	1580.0	1578.0	1487.0	1311.0	1139.0	989.0	877.0	790.0	756.0	745.0	738.0
15°	1628.0	1617.0	1461.0	1228.0	979.0	817.0	716.0	656.0	653.0	646.0	653.0
17.5°	1666.0	1635.0	1423.0	1077.0	826.0	673.0	607.0	611.0	619.0	626.0	627.0
20°	1728.0	1664.0	1336.0	945.0	684.0	577.0	576.0	594.0	614.0	622.0	630.0
22.5°	1775.0	1676.0	1243.0	804.0	568.0	538.0	555.0	582.0	597.0	605.0	617.0
25°	1792.0	1643.0	1119.0	663.0	512.0	520.0	546.0	564.0	583.0	592.0	587.0
27.5°	1809.0	1626.0	971.0	546.0	482.0	508.0	530.0	548.0	554.0	566.0	574.0
30°	1850.0	1567.0	838.0	472.0	467.0	500.0	516.0	522.0	538.0	545.0	545.0
32.5°	1883.0	1544.0	697.0	437.0	465.0	504.0	506.0	506.0	508.0	503.0	501.0
35°	1951.0	1465.0	571.0	416.0	464.0	505.0	510.0	493.0	447.0	429.0	424.0
37.5°	2034.9	1414.0	478.0	411.0	471.0	517.0	525.0	461.0	401.0	372.0	367.0
40°	2136.9	1378.0	417.0	409.0	487.0	545.0	521.0	436.0	358.0	316.0	314.0
42.5°	2255.9	1345.0	376.0	408.0	507.0	574.0	517.0	415.0	314.0	286.0	290.0
45°	2350.9	1327.0	348.0	401.0	514.0	591.0	520.0	378.0	296.0	278.0	280.0
47.5°	2424.9	1289.0	325.0	389.0	513.0	597.0	493.0	363.0	287.0	292.0	297.0
50°	2426.9	1238.0	296.0	363.0	498.0	586.0	462.0	349.0	285.0	306.0	316.0
52.5°	2399.9	1166.0	265.0	326.0	463.0	548.0	434.0	343.0	276.0	274.0	286.0
55°	2303.9	1031.0	213.0	264.0	391.0	452.0	409.0	332.0	249.0	226.0	228.0
57.5°	1862.0	739.0	157.0	189.0	277.0	331.0	369.0	327.0	224.0	192.0	193.0
60°	1153.0	419.0	115.0	129.0	171.0	201.0	299.0	304.0	200.0	162.0	160.0
62.5°	592.0	207.0	89.0	91.0	105.0	118.0	205.0	255.0	181.0	154.0	154.0
65°	198.0	102.0	78.0	70.0	70.0	73.0	124.0	177.0	153.0	129.0	129.0
67.5°	85.0	76.0	68.0	61.0	56.0	53.0	70.0	103.0	114.0	98.0	94.0
70°	66.0	64.0	59.0	51.0	44.0	40.0	41.0	53.0	65.0	63.0	61.0
72.5°	49.0	49.0	47.0	40.0	34.0	29.0	27.0	28.0	31.0	32.0	33.0
75°	34.0	35.0	35.0	31.0	25.0	21.0	18.0	15.0	12.0	10.0	9.0
77.5°	23.0	24.0	26.0	23.0	19.0	14.0	11.0	8.0	5.0	2.0	2.0
80°	20.0	23.0	25.0	23.0	20.0	15.0	11.0	6.0	3.0	0.0	0.0
82.5°	21.0	23.0	26.0	22.0	19.0	14.0	11.0	7.0	3.0	1.0	0.0
85°	5.0	5.0	6.0	7.0	9.0	10.0	8.0	5.0	3.0	1.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0
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)