

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: P527102

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8028 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

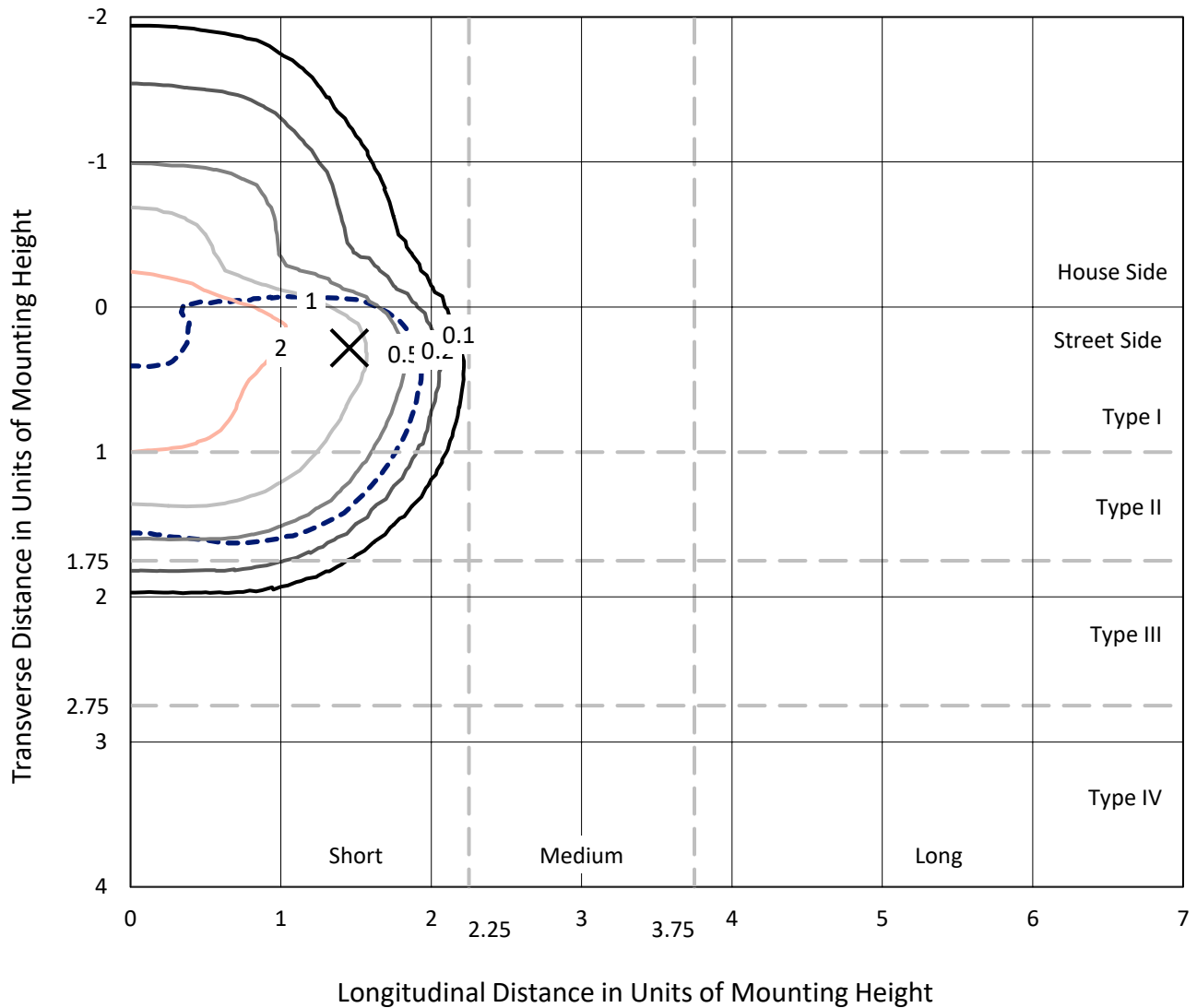
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

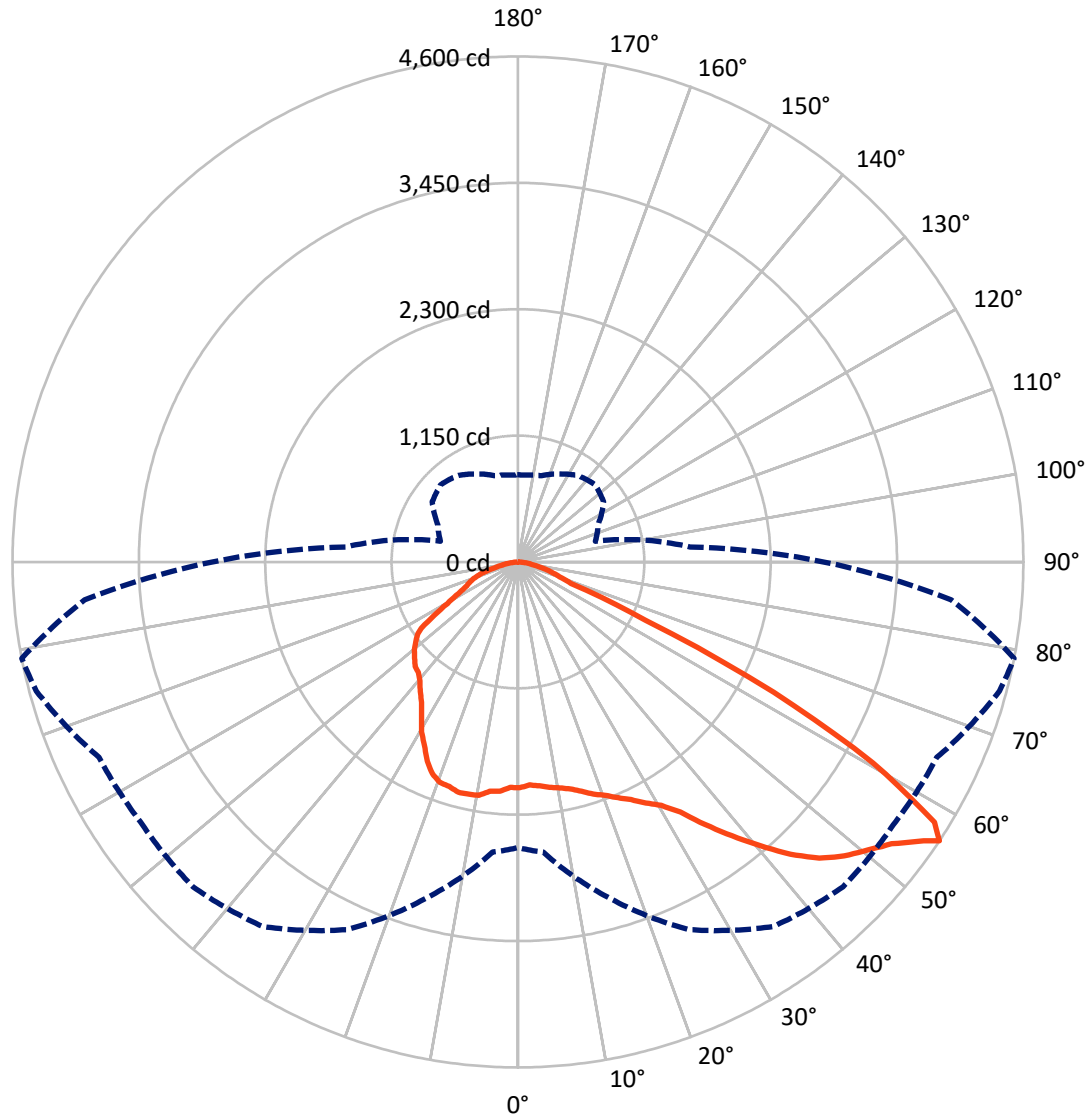
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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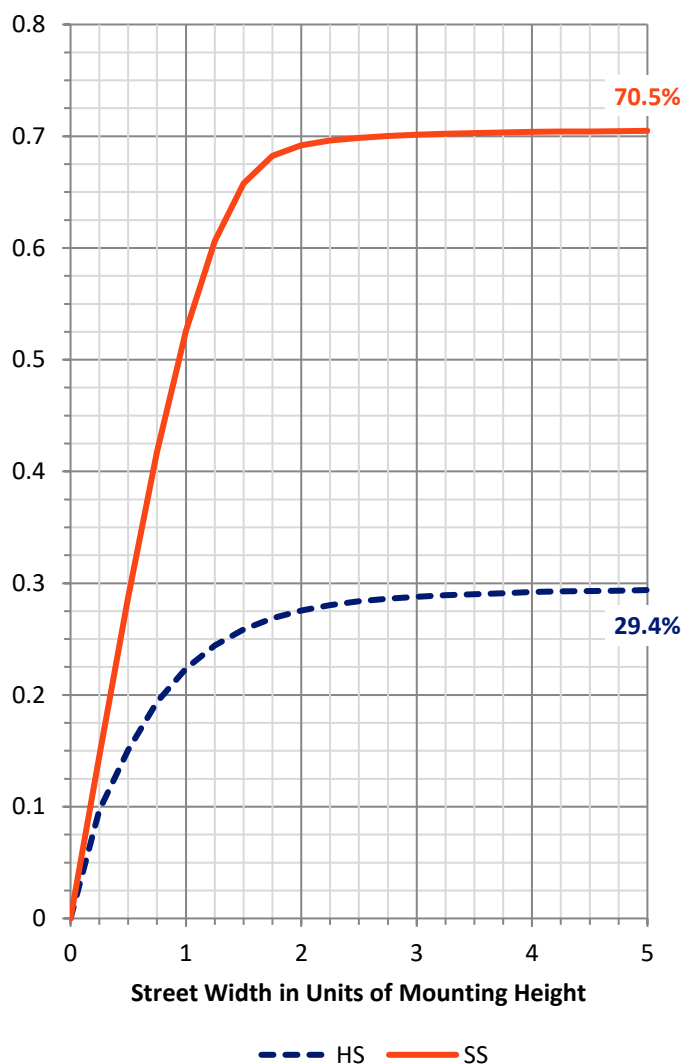
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2370.8	0.0	2370.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5657.2	0.0	5657.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	8028.0	0.0	8028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	2.3
10°-20°	511.1	6.4
20°-30°	874.4	10.9
30°-40°	1340.1	16.7
40°-50°	1811.1	22.6
50°-60°	2080.1	25.9
60°-70°	948.2	11.8
70°-80°	233.8	2.9
80°-90°	42.5	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°	8028.0	100.0
0°-180°	8028.0	100.0

Coefficient of Utilization



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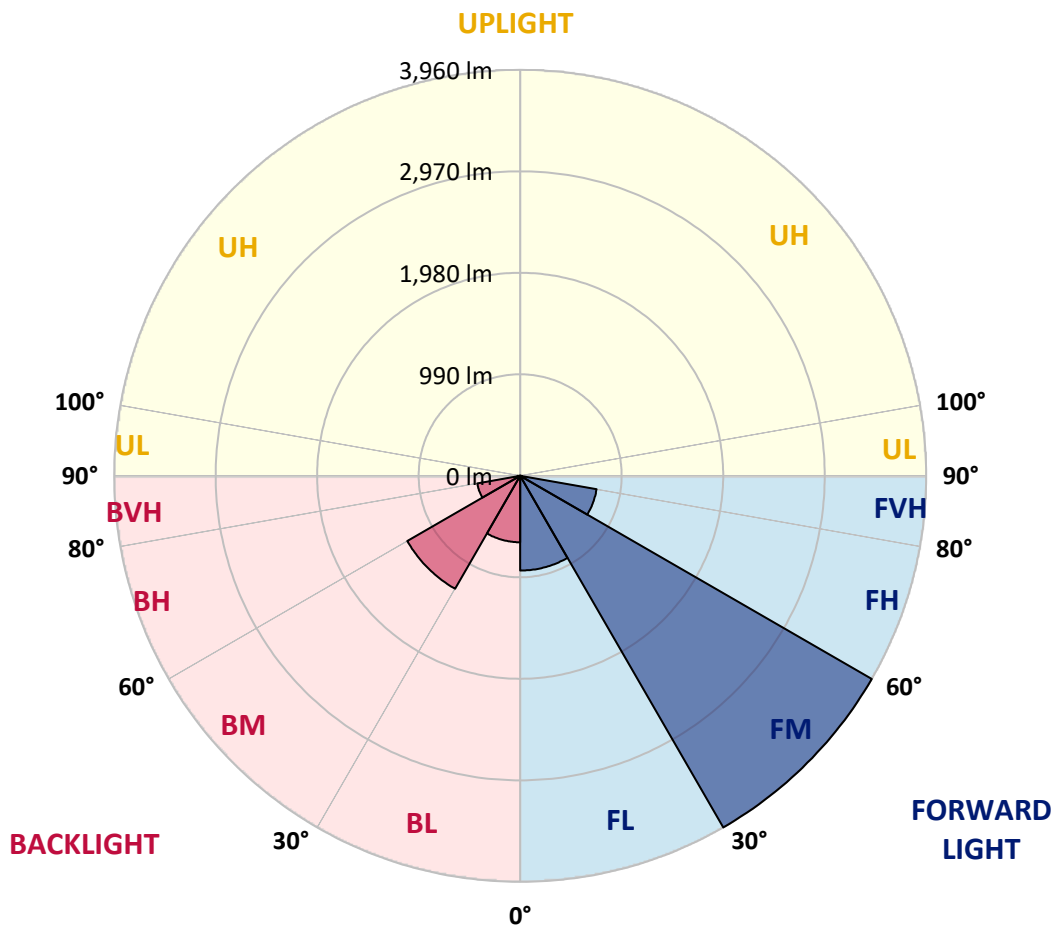
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.7	11.5			
FM (30°-60°)	3959.7	49.3			
FH (60°-80°)	756.9	9.4			G1/1800
FVH (80°-90°)	17.0	0.2			G1/100
BL (0°-30°)	648.5	8.1	B2/1000		
BM (30°-60°)	1271.7	15.8	B2/2500		
BH (60°-80°)	425.1	5.3	B1/500		G1/500
BVH (80°-90°)	25.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0
2.5°	1954.0	1949.0	1961.0	1970.0	1981.0	1995.0	2002.0	2006.0	2041.0	2032.0	2059.0
5°	1912.0	1899.0	1908.0	1915.0	1934.0	1951.0	1970.0	2000.0	2032.0	2046.0	2079.0
7.5°	1875.0	1868.0	1866.0	1871.0	1897.0	1919.0	1952.0	1996.0	2048.0	2071.0	2090.0
10°	1814.0	1804.0	1819.0	1852.0	1859.0	1905.0	1943.0	2006.0	2051.0	2091.0	2147.0
12.5°	1787.0	1777.0	1780.0	1799.0	1848.0	1892.0	1937.0	2008.0	2103.0	2119.0	2194.1
15°	1830.0	1820.0	1823.0	1818.0	1865.0	1888.0	1959.0	2048.0	2139.0	2166.0	2246.1
17.5°	1928.0	1929.0	1916.0	1905.0	1894.0	1943.0	1992.0	2072.0	2153.0	2221.1	2281.1
20°	2115.0	2082.0	2056.0	1994.0	1977.0	1998.0	2060.0	2137.0	2210.1	2266.1	2334.1
22.5°	2259.1	2262.1	2225.1	2123.0	2086.0	2095.0	2148.0	2211.1	2291.1	2331.1	2409.1
25°	2468.1	2447.1	2407.1	2326.1	2243.1	2250.1	2289.1	2346.1	2368.1	2396.1	2481.1
27.5°	2659.1	2665.1	2586.1	2510.1	2407.1	2387.1	2457.1	2467.1	2430.1	2483.1	2512.1
30°	2853.1	2848.1	2796.1	2707.1	2606.1	2610.1	2641.1	2592.1	2541.1	2570.1	2590.1
32.5°	3054.1	2997.1	2995.1	2915.1	2838.1	2801.1	2763.1	2787.1	2708.1	2714.1	2695.1
35°	3215.1	3223.1	3177.1	3120.1	3082.1	3017.1	2913.1	2956.1	2941.1	2934.1	2852.1
37.5°	3332.1	3301.1	3324.1	3305.1	3269.1	3188.1	3080.1	3121.1	3128.1	3162.1	3067.1
40°	3428.1	3415.1	3476.1	3486.1	3461.1	3286.1	3092.1	3214.1	3319.1	3393.1	3280.1
42.5°	3474.1	3502.1	3566.1	3643.1	3587.1	3400.1	3154.1	3285.1	3519.1	3636.1	3482.1
45°	3536.1	3500.1	3595.1	3736.1	3737.1	3496.1	3214.1	3381.1	3675.1	3845.1	3620.1
47.5°	3473.1	3491.1	3589.1	3768.1	3814.1	3597.1	3376.1	3517.1	3847.1	3998.1	3748.1
50°	3332.1	3368.1	3547.1	3733.1	3872.1	3704.1	3562.1	3664.1	4006.1	4121.1	3769.1
52.5°	3185.1	3205.1	3485.1	3760.1	3898.1	3842.1	3811.1	3867.1	4200.1	4260.1	3795.1
55°	2785.1	2880.1	3280.1	3748.1	4025.1	4091.1	4067.1	4149.1	4420.1	4480.1	3937.1
56°	2600.1	2650.1	3157.1	3692.1	4050.1	4182.1	4170.1	4207.1	4537.1	4600.1	3959.1
57.5°	2258.1	2262.1	2692.1	3444.1	3956.1	4209.1	4197.1	4226.1	4514.1	4471.1	3766.1
60°	1413.0	1475.0	1832.0	2649.1	3364.1	3905.1	3973.1	3740.1	3806.1	3715.1	2930.1
62.5°	732.0	723.0	960.0	1549.0	2233.1	2796.1	2859.1	2848.1	2746.1	2613.1	1914.0
65°	365.0	367.0	502.0	767.0	1144.0	1464.0	1640.0	1659.0	1388.0	1277.0	908.0
67.5°	265.0	275.0	361.0	469.0	539.0	603.0	739.0	725.0	549.0	522.0	484.0
70°	206.0	215.0	293.0	358.0	325.0	325.0	354.0	366.0	391.0	402.0	415.0
72.5°	150.0	157.0	224.0	247.0	213.0	229.0	265.0	293.0	319.0	323.0	338.0
75°	103.0	109.0	147.0	136.0	128.0	158.0	194.0	220.0	239.0	249.0	258.0
77.5°	67.0	69.0	84.0	71.0	82.0	102.0	126.0	148.0	167.0	175.0	177.0
80°	30.0	33.0	36.0	45.0	57.0	73.0	90.0	108.0	120.0	123.0	129.0
82.5°	17.0	17.0	22.0	32.0	42.0	53.0	65.0	78.0	92.0	95.0	94.0
85°	9.0	9.0	13.0	19.0	26.0	31.0	30.0	31.0	33.0	38.0	37.0
87.5°	3.0	3.0	4.0	4.0	5.0	6.0	5.0	7.0	9.0	9.0	9.0
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°	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0	2054.0
2.5°	2051.0	2060.0	2048.0	2074.0	2074.0	2069.0	2044.0	2052.0	2058.0	2058.0	2063.0
5°	2090.0	2087.0	2095.0	2064.0	2045.0	2038.0	1997.0	1977.0	1960.0	1959.0	1944.0
7.5°	2112.0	2104.0	2101.0	2078.0	1994.0	1943.0	1855.0	1804.0	1793.0	1754.0	1769.0
10°	2147.0	2162.0	2147.0	2022.0	1905.0	1788.0	1702.0	1623.0	1592.0	1567.0	1552.0
12.5°	2219.1	2212.1	2125.0	1956.0	1792.0	1653.0	1525.0	1442.0	1411.0	1389.0	1387.0
15°	2280.1	2245.1	2112.0	1852.0	1616.0	1468.0	1363.0	1304.0	1290.0	1292.0	1301.0
17.5°	2301.1	2277.1	2044.0	1744.0	1485.0	1311.0	1262.0	1253.0	1266.0	1281.0	1285.0
20°	2334.1	2296.1	2016.0	1597.0	1323.0	1213.0	1210.0	1242.0	1266.0	1288.0	1291.0
22.5°	2403.1	2307.1	1925.0	1458.0	1212.0	1184.0	1213.0	1240.0	1277.0	1295.0	1279.0
25°	2423.1	2283.1	1797.0	1291.0	1142.0	1166.0	1197.0	1234.0	1260.0	1270.0	1277.0
27.5°	2440.1	2246.1	1624.0	1180.0	1120.0	1165.0	1197.0	1228.0	1242.0	1251.0	1259.0
30°	2488.1	2235.1	1474.0	1106.0	1106.0	1145.0	1186.0	1194.0	1213.0	1224.0	1238.0
32.5°	2512.1	2159.0	1320.0	1059.0	1092.0	1155.0	1158.0	1173.0	1174.0	1183.0	1168.0
35°	2575.1	2105.0	1177.0	1025.0	1098.0	1145.0	1160.0	1151.0	1102.0	1078.0	1083.0
37.5°	2621.1	2078.0	1074.0	1021.0	1099.0	1156.0	1164.0	1096.0	1045.0	1005.0	1015.0
40°	2745.1	2011.0	996.0	1014.0	1108.0	1168.0	1146.0	1072.0	980.0	939.0	932.0
42.5°	2840.1	1963.0	947.0	1006.0	1115.0	1185.0	1137.0	1024.0	930.0	892.0	902.0
45°	2950.1	1952.0	921.0	1008.0	1127.0	1194.0	1126.0	987.0	887.0	872.0	869.0
47.5°	2989.1	1873.0	893.0	991.0	1124.0	1191.0	1089.0	959.0	871.0	873.0	881.0
50°	2924.1	1792.0	872.0	956.0	1104.0	1164.0	1031.0	922.0	862.0	887.0	901.0
52.5°	2841.1	1709.0	829.0	909.0	1063.0	1122.0	1004.0	920.0	853.0	845.0	848.0
55°	2866.1	1641.0	769.0	845.0	997.0	1044.0	974.0	901.0	831.0	801.0	811.0
56°	2785.1	1571.0	730.0	805.0	952.0	994.0	959.0	884.0	813.0	793.0	793.0
57.5°	2556.1	1336.0	679.0	741.0	857.0	907.0	930.0	874.0	793.0	758.0	759.0
60°	1885.0	950.0	609.0	653.0	710.0	750.0	857.0	846.0	743.0	719.0	710.0
62.5°	1162.0	694.0	559.0	576.0	605.0	638.0	748.0	766.0	690.0	664.0	658.0
65°	651.0	531.0	521.0	528.0	542.0	559.0	621.0	661.0	609.0	569.0	567.0
67.5°	476.0	475.0	483.0	489.0	495.0	495.0	510.0	526.0	519.0	487.0	484.0
70°	423.0	426.0	432.0	433.0	435.0	428.0	416.0	411.0	419.0	399.0	395.0
72.5°	349.0	359.0	366.0	367.0	356.0	347.0	331.0	314.0	308.0	304.0	303.0
75°	268.0	275.0	278.0	277.0	273.0	260.0	241.0	224.0	213.0	201.0	207.0
77.5°	181.0	191.0	196.0	196.0	190.0	170.0	161.0	148.0	137.0	124.0	126.0
80°	127.0	134.0	142.0	141.0	131.0	121.0	108.0	96.0	87.0	77.0	76.0
82.5°	95.0	99.0	103.0	101.0	94.0	84.0	75.0	64.0	54.0	47.0	47.0
85°	34.0	37.0	45.0	47.0	51.0	51.0	43.0	36.0	29.0	24.0	24.0
87.5°	10.0	10.0	11.0	11.0	10.0	11.0	9.0	10.0	11.0	7.0	7.0
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)