

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635521

Luminaire Tested: GWS-SA3D-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13870 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

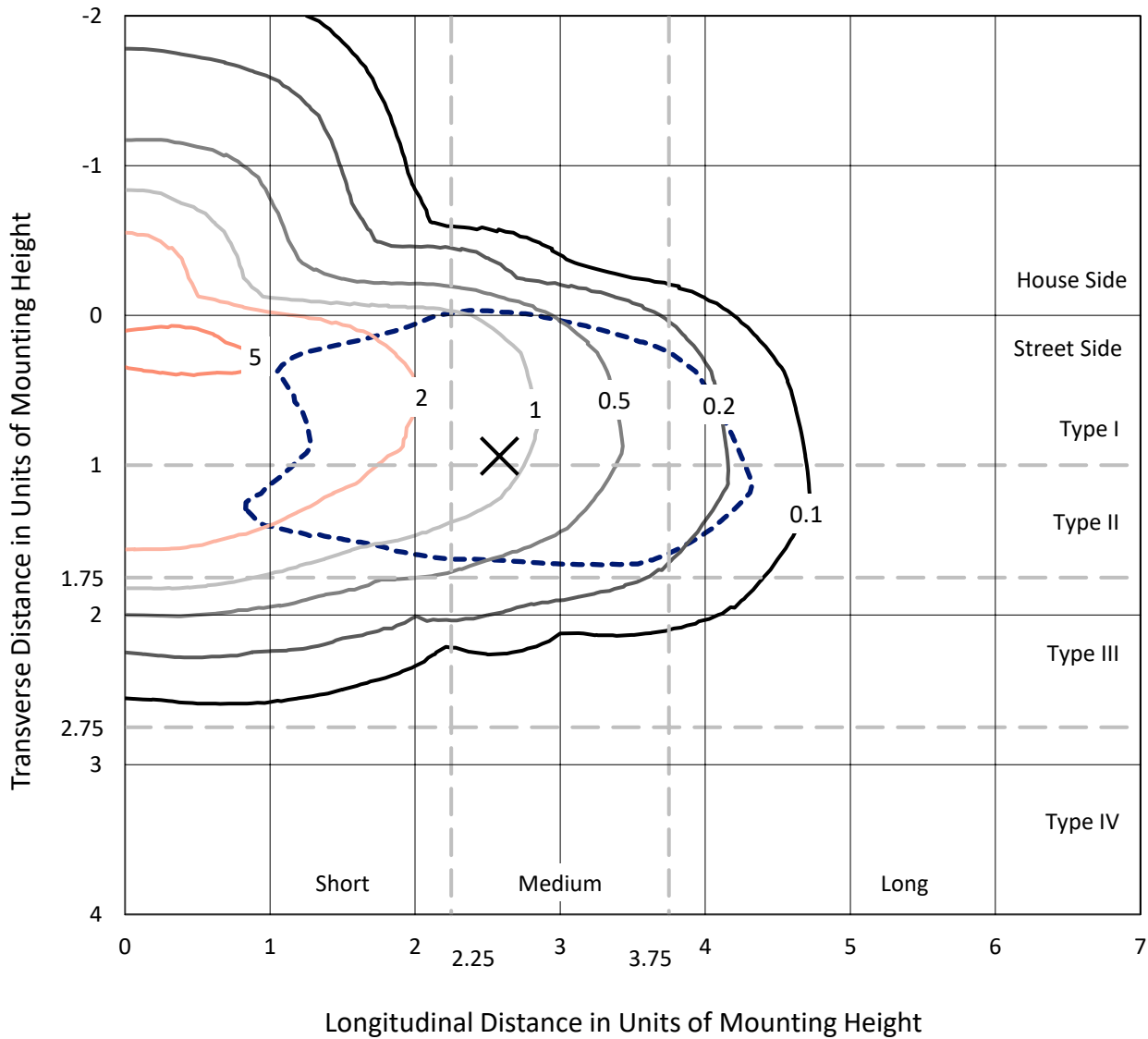
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

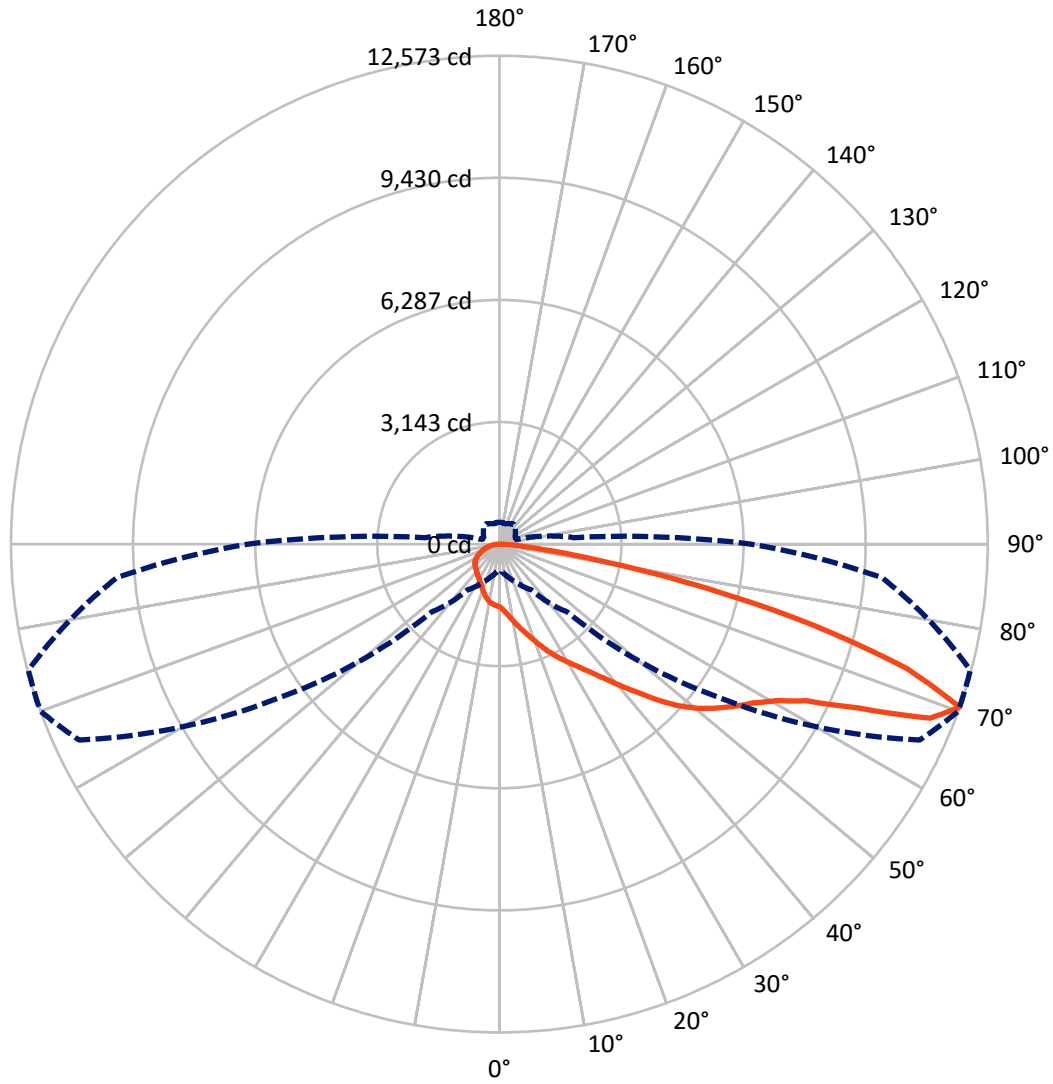
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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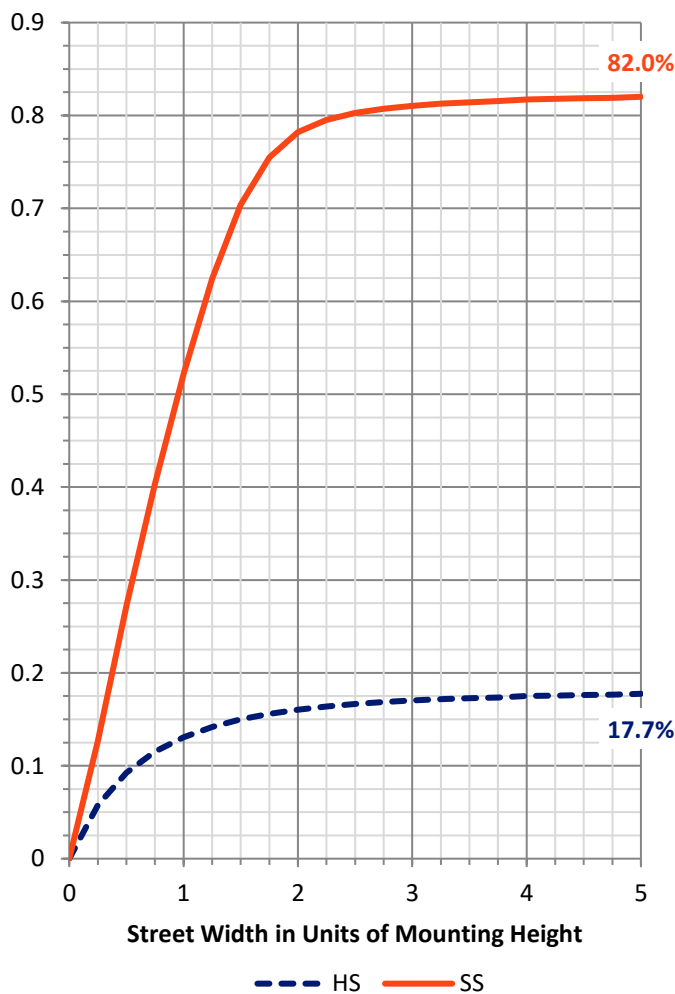
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.5	0.0	2485.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11384.5	0.0	11384.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	13870.0	0.0	13870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.2
10°-20°	534.8	3.9
20°-30°	947.4	6.8
30°-40°	1425.9	10.3
40°-50°	2157.2	15.6
50°-60°	3090.3	22.3
60°-70°	3416.0	24.6
70°-80°	1927.7	13.9
80°-90°	206.2	1.5
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°	13870.0	100.0
0°-180°	13870.0	100.0

Coefficient of Utilization



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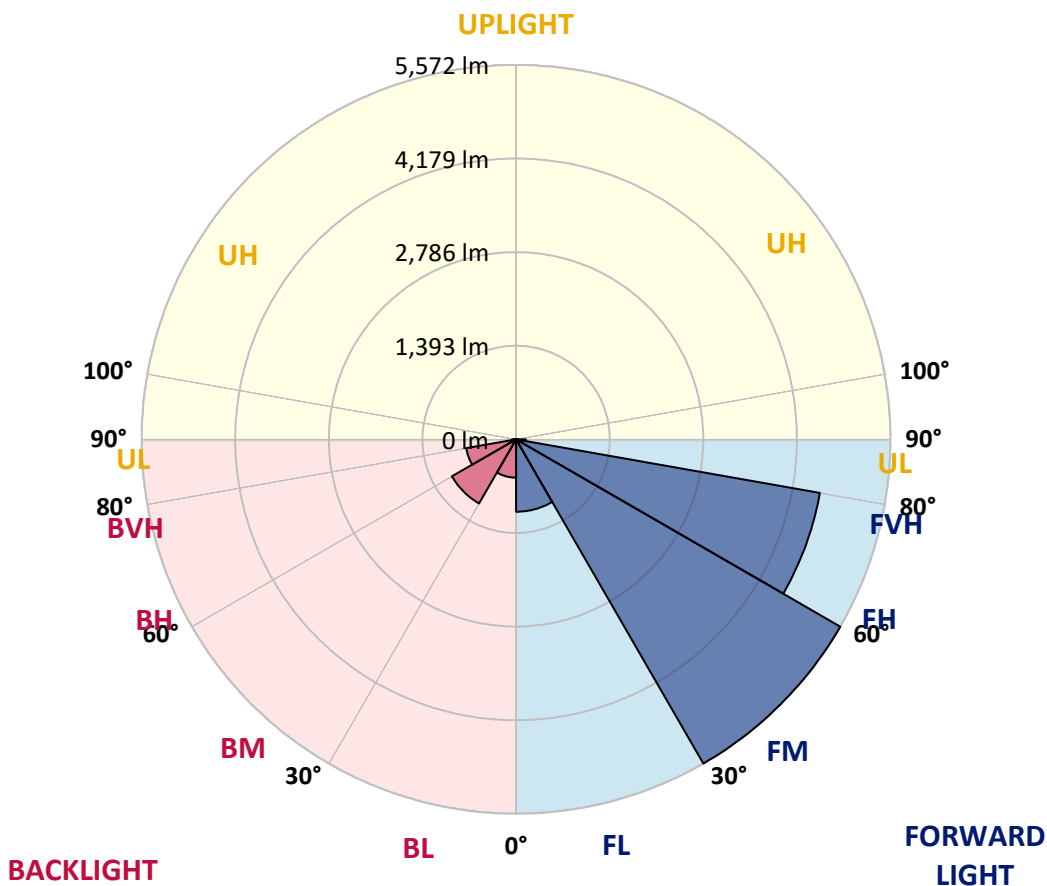
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.7	7.8			
FM (30°-60°)	5571.6	40.2			
FH (60°-80°)	4590.4	33.1			G2/5000
FVH (80°-90°)	145.8	1.1			G2/225
BL (0°-30°)	569.9	4.1	B2/1000		
BM (30°-60°)	1101.9	7.9	B2/2500		
BH (60°-80°)	753.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	60.4	0.4			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1791.9	1788.9	1790.9	1788.9	1777.9	1750.8	1728.8	1700.7	1681.7	1670.6	1644.6
5°	2002.4	1999.4	1992.3	1982.3	1962.3	1925.2	1870.1	1808.9	1771.9	1743.8	1688.7
7.5°	2153.7	2153.7	2152.7	2140.7	2126.6	2087.6	2022.4	1942.2	1888.1	1840.0	1749.8
10°	2230.9	2235.9	2242.9	2259.9	2256.9	2235.9	2174.7	2088.6	2020.4	1964.3	1830.0
12.5°	2273.0	2276.0	2288.0	2323.1	2359.1	2364.2	2328.1	2237.9	2163.7	2088.6	1919.2
15°	2327.1	2328.1	2344.1	2386.2	2439.3	2492.4	2483.4	2393.2	2317.1	2233.9	2018.4
17.5°	2369.2	2376.2	2405.2	2454.4	2520.5	2593.7	2637.8	2581.6	2487.4	2392.2	2126.6
20°	2384.2	2389.2	2427.3	2502.5	2592.7	2695.9	2794.1	2779.1	2683.9	2571.6	2248.9
22.5°	2438.3	2438.3	2466.4	2529.5	2635.8	2786.1	2945.4	2984.5	2900.3	2769.0	2380.2
25°	2557.6	2553.6	2566.6	2592.7	2672.8	2858.2	3094.8	3212.0	3117.8	2970.5	2511.5
27.5°	2720.9	2718.9	2717.9	2721.9	2749.0	2921.4	3221.0	3424.5	3330.3	3163.9	2628.7
30°	2898.3	2892.3	2905.3	2893.3	2887.3	2996.5	3328.3	3614.9	3541.7	3355.3	2725.9
32.5°	3139.9	3128.8	3125.8	3086.7	3062.7	3113.8	3414.4	3831.4	3773.2	3561.8	2835.2
35°	3458.5	3448.5	3397.4	3335.3	3264.1	3288.2	3521.7	4042.8	4046.8	3820.3	2978.5
37.5°	3780.2	3782.3	3742.2	3595.8	3522.7	3508.7	3685.0	4300.4	4386.6	4129.0	3163.9
40°	4047.8	4059.9	4059.9	3905.5	3796.3	3783.3	3914.5	4606.0	4777.4	4507.8	3398.4
42.5°	4251.3	4262.3	4297.4	4186.1	4070.9	4116.0	4193.1	4912.7	5220.4	4975.9	3695.1
45°	4474.8	4483.8	4502.8	4438.7	4371.5	4491.8	4508.8	5279.5	5727.5	5501.0	4039.8
47.5°	4771.4	4763.4	4765.4	4718.3	4666.2	4860.6	4856.6	5588.2	6217.6	6076.3	4413.6
50°	5140.2	5155.2	5141.2	5048.0	4986.9	5164.3	5187.3	5929.9	6648.5	6645.5	4790.5
52.5°	5495.0	5501.0	5575.2	5579.2	5453.9	5416.8	5476.9	6274.7	7012.3	7166.6	5152.2
55°	5513.0	5536.1	5758.6	5918.9	6121.4	5823.7	5769.6	6603.4	7364.1	7676.7	5528.1
57.5°	5129.2	5166.3	5544.1	5889.9	6453.1	6522.2	6270.7	7028.3	7715.8	8178.8	5963.0
60°	4309.4	4386.6	4899.7	5428.8	6303.8	7024.3	7295.9	7605.6	8177.8	8692.0	6491.2
62.5°	2752.0	2782.1	3501.6	4387.6	5631.3	6975.2	8412.4	8622.8	8881.4	9360.4	7304.9
65°	1378.0	1474.2	1896.1	2618.7	4060.9	6146.4	8976.6	10485.9	10169.2	10504.9	8623.8
67.5°	935.0	966.1	1179.6	1573.4	2381.2	4354.5	8626.8	12055.3	11962.1	12017.2	10029.9
70°	689.5	709.5	877.9	1114.4	1440.1	2472.4	6868.0	11937.0	12573.4	12553.4	9882.6
72.5°	503.1	513.1	640.4	850.9	1067.3	1278.8	4194.2	9643.0	10975.9	11554.2	8642.9
75°	365.8	377.8	445.0	636.4	829.8	797.7	2070.5	6965.2	8370.3	9482.7	7041.4
77.5°	272.6	287.6	318.7	398.9	581.3	571.2	895.0	4522.9	5413.8	6193.5	4277.3
80°	196.4	199.4	217.5	255.6	368.8	334.7	425.9	2358.1	2703.9	2962.5	1676.7
82.5°	119.3	122.3	145.3	157.3	228.5	210.5	221.5	763.7	1094.4	1161.5	626.4
85°	35.1	37.1	66.1	72.2	95.2	90.2	89.2	310.7	370.8	474.0	246.5
87.5°	0.0	0.0	0.0	0.0	1.0	6.0	11.0	55.1	83.2	115.3	60.1
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°	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1634.6	1611.5	1599.5	1578.4	1563.4	1548.4	1533.3	1519.3	1513.3	1504.3	1506.3
5°	1663.6	1627.6	1591.5	1550.4	1515.3	1486.2	1460.2	1437.1	1427.1	1418.1	1422.1
7.5°	1707.7	1653.6	1584.5	1509.3	1454.2	1414.1	1387.0	1371.0	1366.0	1359.0	1359.0
10°	1763.8	1682.7	1561.4	1454.2	1388.0	1356.0	1343.9	1342.9	1347.9	1348.9	1346.9
12.5°	1826.0	1710.7	1527.3	1389.0	1332.9	1322.9	1331.9	1348.9	1366.0	1375.0	1373.0
15°	1890.1	1728.8	1469.2	1326.9	1292.8	1305.8	1334.9	1369.0	1402.1	1419.1	1418.1
17.5°	1950.3	1732.8	1394.0	1266.8	1257.7	1290.8	1340.9	1394.0	1439.1	1463.2	1464.2
20°	2017.4	1725.8	1316.9	1212.6	1222.7	1276.8	1342.9	1407.1	1460.2	1484.2	1490.3
22.5°	2078.5	1701.7	1241.7	1161.5	1192.6	1259.7	1326.9	1387.0	1434.1	1457.2	1465.2
25°	2133.7	1655.6	1159.5	1118.4	1169.6	1235.7	1286.8	1328.9	1362.0	1376.0	1387.0
27.5°	2163.7	1586.5	1097.4	1084.4	1147.5	1201.6	1229.7	1242.7	1253.7	1249.7	1257.7
30°	2169.7	1500.3	1043.3	1057.3	1114.4	1154.5	1160.5	1147.5	1128.5	1097.4	1104.4
32.5°	2163.7	1401.1	998.2	1028.2	1077.4	1101.4	1093.4	1059.3	1013.2	965.1	968.1
35°	2165.7	1300.8	961.1	996.2	1034.3	1047.3	1027.2	980.1	931.0	886.9	884.9
37.5°	2187.8	1216.7	930.0	965.1	992.2	994.2	972.1	923.0	898.0	864.9	860.9
40°	2248.9	1154.5	902.0	934.0	951.1	950.1	925.0	889.9	907.0	896.0	892.9
42.5°	2349.1	1116.4	878.9	901.0	913.0	915.0	895.0	872.9	910.0	896.0	890.9
45°	2510.5	1114.4	862.9	867.9	886.9	901.0	886.9	861.9	875.9	807.8	794.7
47.5°	2701.9	1148.5	850.9	838.8	871.9	897.0	874.9	834.8	805.8	743.6	734.6
50°	2932.4	1217.7	839.8	807.8	849.9	881.9	859.9	804.8	760.7	727.6	722.6
52.5°	3206.0	1308.9	825.8	772.7	816.8	873.9	859.9	801.7	743.6	713.6	708.5
55°	3492.6	1414.1	809.8	730.6	779.7	875.9	866.9	780.7	730.6	714.6	710.6
57.5°	3848.4	1540.4	780.7	681.5	746.6	857.9	838.8	768.7	721.6	708.5	704.5
60°	4310.4	1727.8	725.6	631.4	708.5	825.8	813.8	748.6	697.5	686.5	683.5
62.5°	5042.0	2045.5	658.4	583.3	663.4	758.7	776.7	710.6	667.5	666.5	665.5
65°	6234.6	2427.3	579.3	540.2	616.3	703.5	727.6	671.5	636.4	647.4	646.4
67.5°	7070.4	2460.4	514.1	495.1	561.2	643.4	678.5	631.4	593.3	614.3	613.3
70°	6476.1	1919.2	458.0	448.0	502.1	578.3	625.4	581.3	543.2	563.2	559.2
72.5°	5461.9	1471.2	404.9	398.9	442.0	510.1	557.2	531.2	491.1	491.1	482.1
75°	4389.6	1213.6	348.8	345.8	374.8	441.0	494.1	450.0	412.9	410.9	404.9
77.5°	2517.5	795.7	292.6	290.6	299.7	368.8	383.8	374.8	346.8	333.7	329.7
80°	1003.2	413.9	230.5	217.5	226.5	270.6	302.7	287.6	263.6	247.5	238.5
82.5°	388.8	207.5	162.4	142.3	155.3	195.4	219.5	214.5	198.4	162.4	152.3
85°	158.3	101.2	97.2	82.2	90.2	105.2	126.3	109.2	90.2	64.1	61.1
87.5°	42.1	37.1	36.1	22.0	17.0	5.0	1.0	0.0	0.0	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)