

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: P632726

Luminaire Tested: GWS-SA2D-730-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9321.8 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82.1
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

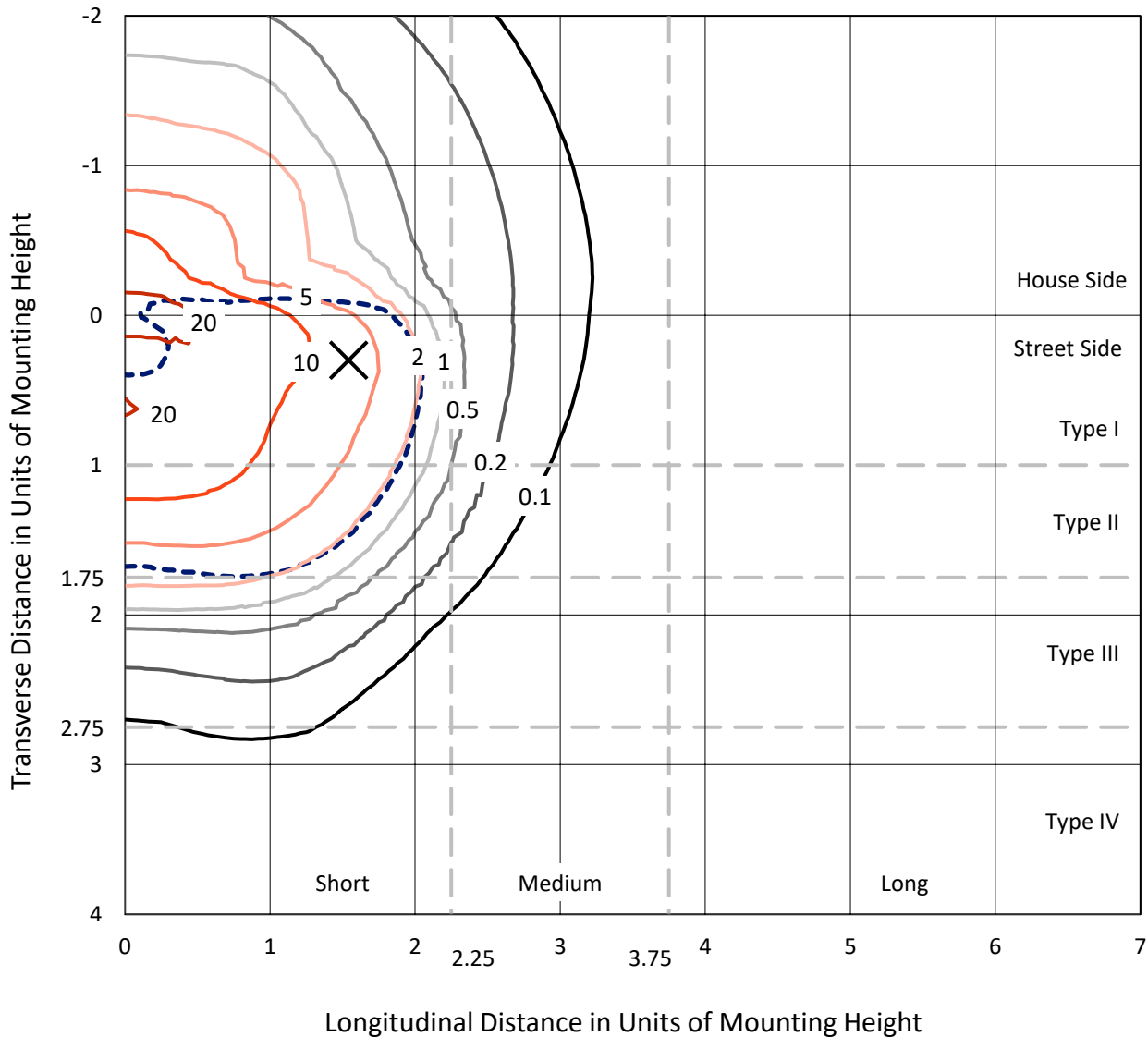


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Iso-Footcandle Lines of Horizontal Illumination

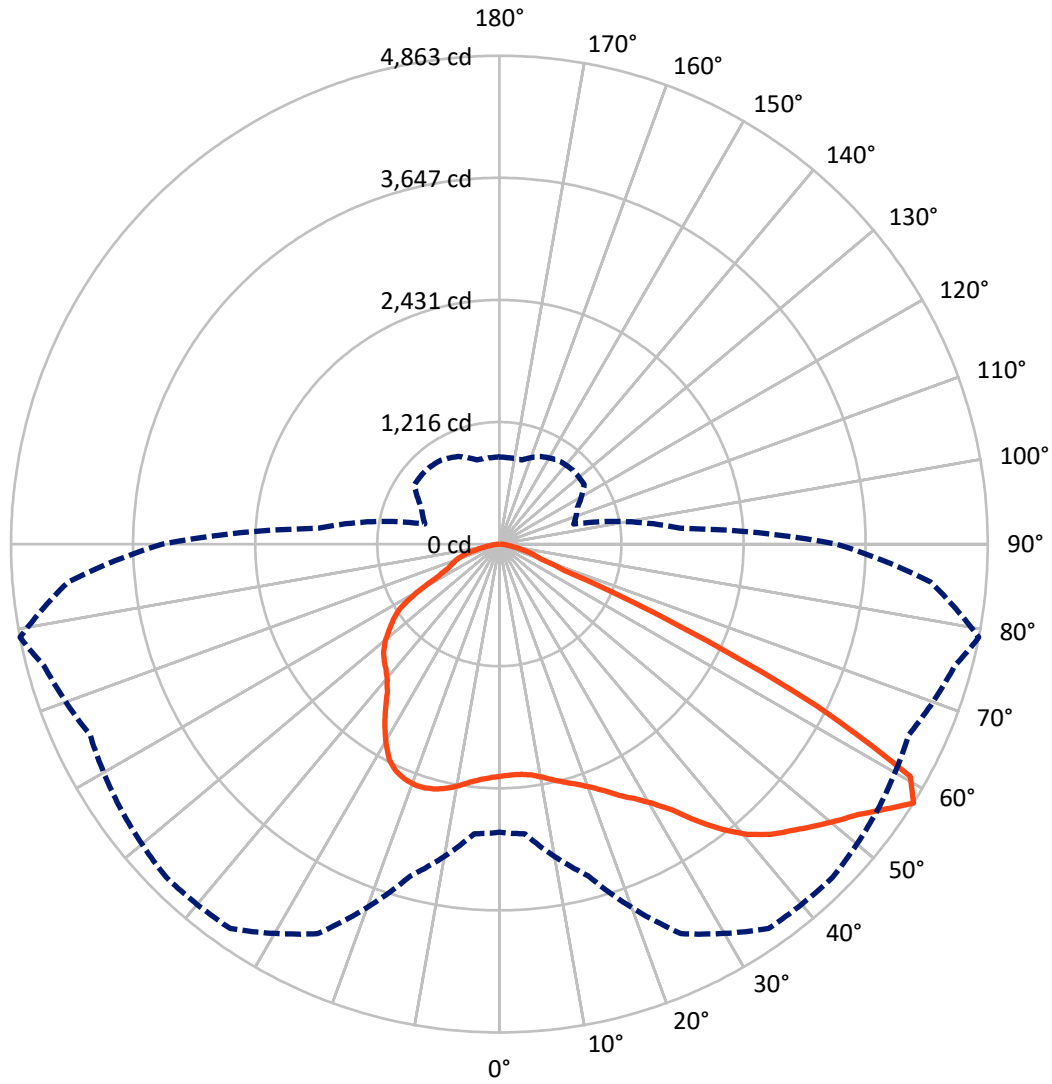
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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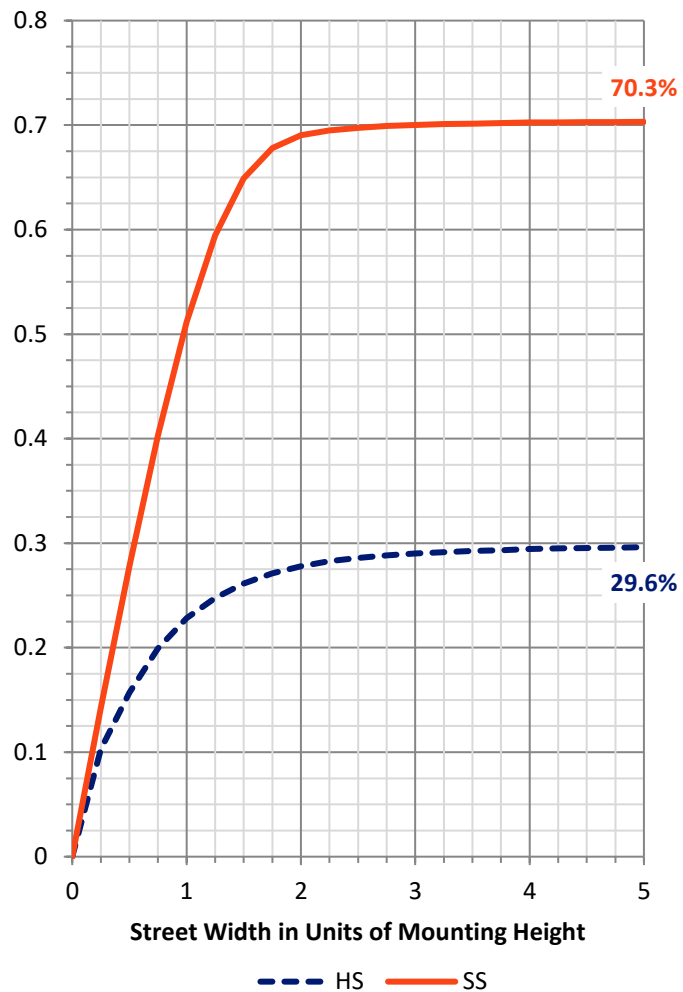
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2770.9	0.0	2770.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	6550.9	0.0	6550.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	9321.8	0.0	9321.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	2.3
10°-20°	594.5	6.4
20°-30°	1007.8	10.8
30°-40°	1542.5	16.5
40°-50°	2056.8	22.1
50°-60°	2375.5	25.5
60°-70°	1234.4	13.2
70°-80°	262.4	2.8
80°-90°	34.0	0.4
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°	9321.8	100.0
0°-180°	9321.8	100.0

Coefficient of Utilization



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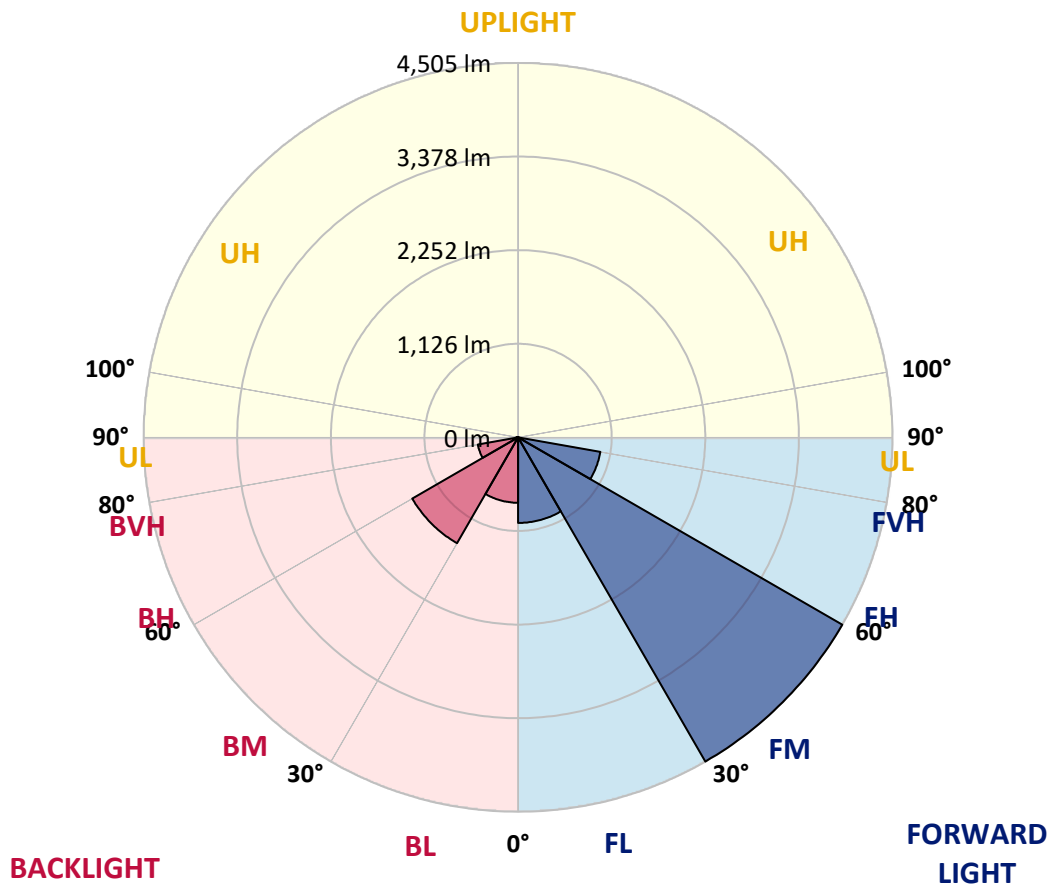
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.3	11.0			
FM (30°-60°)	4504.6	48.3			
FH (60°-80°)	1005.1	10.8			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	786.9	8.4	B2/1000		
BM (30°-60°)	1470.2	15.8	B2/2500		
BH (60°-80°)	491.6	5.3	B1/500		G1/500
BVH (80°-90°)	22.1	0.2			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°	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2
2.5°	2205.0	2200.4	2201.9	2208.0	2230.9	2247.7	2265.2	2281.2	2296.4	2301.0	2304.8
5°	2126.5	2118.1	2120.4	2130.3	2157.0	2185.2	2216.4	2254.5	2291.1	2303.3	2319.3
7.5°	2070.8	2069.3	2073.1	2088.4	2116.6	2143.2	2183.6	2237.8	2301.0	2321.6	2349.8
10°	1996.9	1993.9	2009.1	2040.3	2086.8	2129.5	2177.5	2241.6	2330.0	2360.5	2403.9
12.5°	1938.2	1936.7	1952.7	1996.1	2055.6	2123.4	2189.7	2261.4	2368.8	2410.8	2464.1
15°	1972.5	1965.7	1966.4	1996.9	2050.3	2130.3	2220.2	2297.2	2407.7	2461.1	2529.7
17.5°	2072.4	2060.2	2051.0	2056.4	2086.8	2169.9	2266.7	2345.2	2452.7	2515.2	2599.0
20°	2210.3	2203.5	2178.3	2161.5	2168.4	2241.6	2339.9	2413.1	2511.4	2581.5	2671.4
22.5°	2395.5	2378.8	2344.5	2317.8	2297.2	2354.4	2445.1	2508.3	2592.9	2666.1	2759.8
25°	2624.9	2600.5	2546.4	2504.5	2460.3	2519.0	2599.8	2647.8	2705.0	2772.8	2862.0
27.5°	2858.9	2838.3	2778.1	2721.7	2666.9	2703.4	2799.5	2826.9	2820.8	2870.4	2946.6
30°	3108.2	3082.2	3025.1	2964.1	2893.2	2916.9	3003.0	3016.7	2951.9	2993.1	3044.9
32.5°	3371.1	3346.0	3296.4	3225.5	3145.5	3154.6	3178.3	3191.2	3129.5	3153.1	3192.8
35°	3638.6	3615.0	3564.7	3494.6	3435.9	3380.3	3320.8	3372.6	3336.8	3382.5	3379.5
37.5°	3883.3	3859.7	3828.4	3774.3	3673.7	3563.9	3426.7	3490.8	3546.4	3604.3	3594.4
40°	4048.7	4032.7	4040.3	4031.9	3902.3	3685.1	3478.6	3548.7	3700.4	3799.5	3794.1
42.5°	4191.2	4175.2	4219.4	4251.4	4099.0	3797.2	3503.7	3570.8	3798.7	3953.4	3945.8
45°	4254.5	4249.9	4323.1	4424.4	4278.9	3916.1	3568.5	3616.5	3873.4	4071.5	4042.6
47.5°	4179.0	4195.0	4339.1	4510.6	4428.2	4057.1	3701.1	3713.3	3970.9	4199.6	4118.0
50°	4028.9	4063.9	4258.3	4512.8	4537.2	4216.4	3884.8	3854.3	4102.0	4336.0	4157.7
52.5°	3810.1	3846.7	4163.8	4495.3	4599.7	4400.8	4129.5	4086.0	4267.4	4472.5	4164.5
55°	3307.8	3357.4	3947.3	4455.7	4660.7	4568.5	4405.4	4317.0	4480.8	4659.9	4232.4
57.5°	2869.6	2895.5	3419.9	4279.6	4672.9	4692.0	4602.0	4496.8	4692.7	4862.7	4308.6
60°	2105.9	2112.0	2583.8	3541.1	4298.7	4620.3	4586.0	4429.8	4592.1	4700.3	3959.5
62.5°	1189.8	1190.5	1567.0	2363.5	3211.1	3765.9	3787.3	3649.3	3512.9	3544.9	2756.0
65°	446.6	488.6	715.7	1161.6	1851.3	2223.3	2311.7	2343.7	2116.6	1975.6	1477.9
67.5°	298.8	308.7	417.7	597.5	823.9	951.2	1064.0	1067.0	780.5	695.9	582.3
70°	227.9	237.8	328.5	427.6	417.7	385.7	416.9	405.5	419.2	430.6	442.8
72.5°	170.0	179.9	254.6	301.8	250.8	246.9	279.7	311.0	339.9	352.1	371.2
75°	112.8	120.4	171.5	161.6	138.7	163.9	204.3	235.5	252.3	266.8	281.2
77.5°	71.6	77.0	91.5	73.9	77.0	96.0	118.9	147.1	163.1	177.6	185.2
80°	32.8	32.0	31.2	35.1	43.4	56.4	71.6	88.4	100.6	106.7	111.3
82.5°	13.0	14.5	16.0	19.1	23.6	30.5	40.4	51.8	61.7	63.3	67.1
85°	5.3	6.1	6.9	8.4	10.7	13.7	16.8	23.6	29.7	32.0	34.3
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	2.3	3.8	6.9	7.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2
2.5°	2325.4	2315.5	2332.3	2343.7	2354.4	2342.9	2339.1	2329.2	2327.7	2327.7	2333.0
5°	2346.7	2339.9	2357.4	2364.3	2363.5	2338.4	2323.1	2303.3	2293.4	2293.4	2294.9
7.5°	2384.9	2381.0	2390.9	2380.3	2355.9	2304.8	2254.5	2212.6	2184.4	2169.9	2174.5
10°	2448.1	2443.5	2435.2	2395.5	2325.4	2219.5	2116.6	2040.3	1994.6	1968.7	1970.2
12.5°	2509.8	2502.2	2472.5	2384.9	2240.8	2072.4	1937.5	1852.1	1801.8	1771.3	1764.4
15°	2577.7	2557.9	2493.8	2330.0	2102.8	1892.5	1751.5	1659.3	1605.1	1586.9	1586.1
17.5°	2642.5	2607.4	2491.6	2232.4	1937.5	1704.2	1562.5	1505.3	1496.2	1504.5	1506.8
20°	2708.0	2651.6	2466.4	2097.5	1740.8	1516.7	1443.6	1467.2	1501.5	1524.4	1529.7
22.5°	2775.8	2688.2	2409.2	1923.7	1533.5	1390.2	1420.7	1472.5	1515.2	1545.7	1548.7
25°	2852.1	2722.5	2323.9	1711.1	1367.3	1355.2	1415.4	1470.2	1516.0	1551.0	1557.1
27.5°	2895.5	2723.3	2204.2	1492.3	1291.1	1341.4	1402.4	1454.2	1500.0	1538.1	1544.9
30°	2938.2	2702.7	2014.4	1314.8	1269.0	1325.4	1380.3	1428.3	1471.8	1509.1	1517.5
32.5°	2998.4	2683.6	1795.7	1212.6	1256.1	1310.2	1355.2	1397.8	1431.4	1448.1	1452.7
35°	3073.1	2659.2	1563.2	1168.4	1247.7	1298.0	1337.6	1360.5	1317.0	1307.9	1317.8
37.5°	3177.5	2636.4	1331.5	1149.4	1242.3	1293.4	1328.5	1269.8	1216.4	1195.1	1202.7
40°	3290.3	2623.4	1174.5	1134.1	1244.6	1298.0	1290.4	1203.5	1126.5	1081.5	1080.0
42.5°	3386.4	2603.6	1073.9	1124.2	1250.7	1315.5	1238.5	1144.8	1030.5	1003.8	1004.5
45°	3451.1	2553.3	1020.6	1113.5	1256.1	1319.3	1214.1	1064.0	982.4	965.7	964.9
47.5°	3477.8	2461.8	986.3	1096.8	1255.3	1288.1	1164.6	1030.5	948.9	944.3	947.4
50°	3460.3	2311.7	951.2	1064.0	1237.0	1255.3	1107.4	1000.7	926.0	951.2	969.5
52.5°	3395.5	2117.3	909.3	1019.0	1204.2	1218.0	1078.5	982.4	909.3	942.8	957.3
55°	3378.7	1959.6	855.9	960.3	1155.5	1151.6	1048.0	973.3	897.8	884.9	887.2
57.5°	3356.6	1805.6	767.5	855.2	1032.0	1038.1	1019.0	962.6	868.1	864.3	868.1
60°	2916.1	1384.1	684.4	737.8	847.5	880.3	986.3	942.8	820.1	804.1	803.3
62.5°	1904.7	838.4	609.0	643.3	690.5	728.6	899.4	885.6	767.5	757.6	764.5
65°	1024.4	597.5	554.1	574.7	600.6	629.6	745.4	788.9	693.6	658.5	659.3
67.5°	523.6	508.4	512.9	527.4	547.2	561.7	601.4	639.5	591.4	561.7	561.0
70°	448.2	460.4	467.2	475.6	488.6	486.3	490.1	496.9	493.1	478.6	477.9
72.5°	381.9	400.9	402.4	404.0	408.5	397.9	391.0	379.6	380.3	382.6	383.4
75°	290.4	308.7	313.3	311.0	315.5	301.8	292.7	281.2	267.5	265.2	266.8
77.5°	189.0	203.5	210.4	208.8	211.1	200.5	195.9	183.7	167.7	161.6	161.6
80°	114.3	122.7	128.0	129.6	131.9	124.2	116.6	105.9	99.1	92.2	92.2
82.5°	69.4	74.7	78.5	78.5	80.8	72.4	66.3	58.7	55.6	49.5	49.5
85°	35.1	38.9	40.4	39.6	38.1	31.2	29.0	25.2	23.6	20.6	20.6
87.5°	8.4	10.7	10.7	7.6	7.6	3.8	2.3	0.8	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)