

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: P633813

Luminaire Tested: GWS-SA2F-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9636.2 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

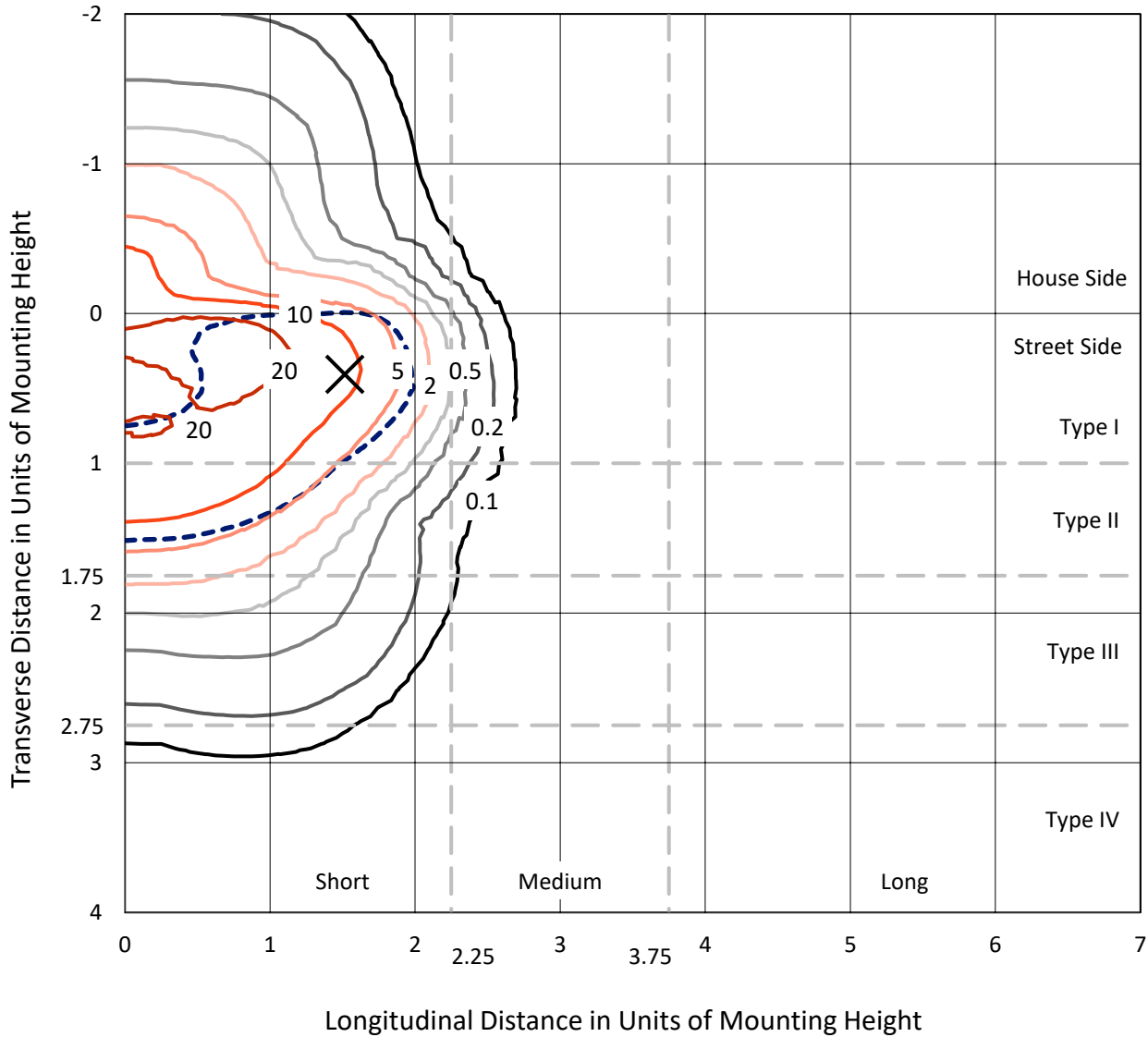
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

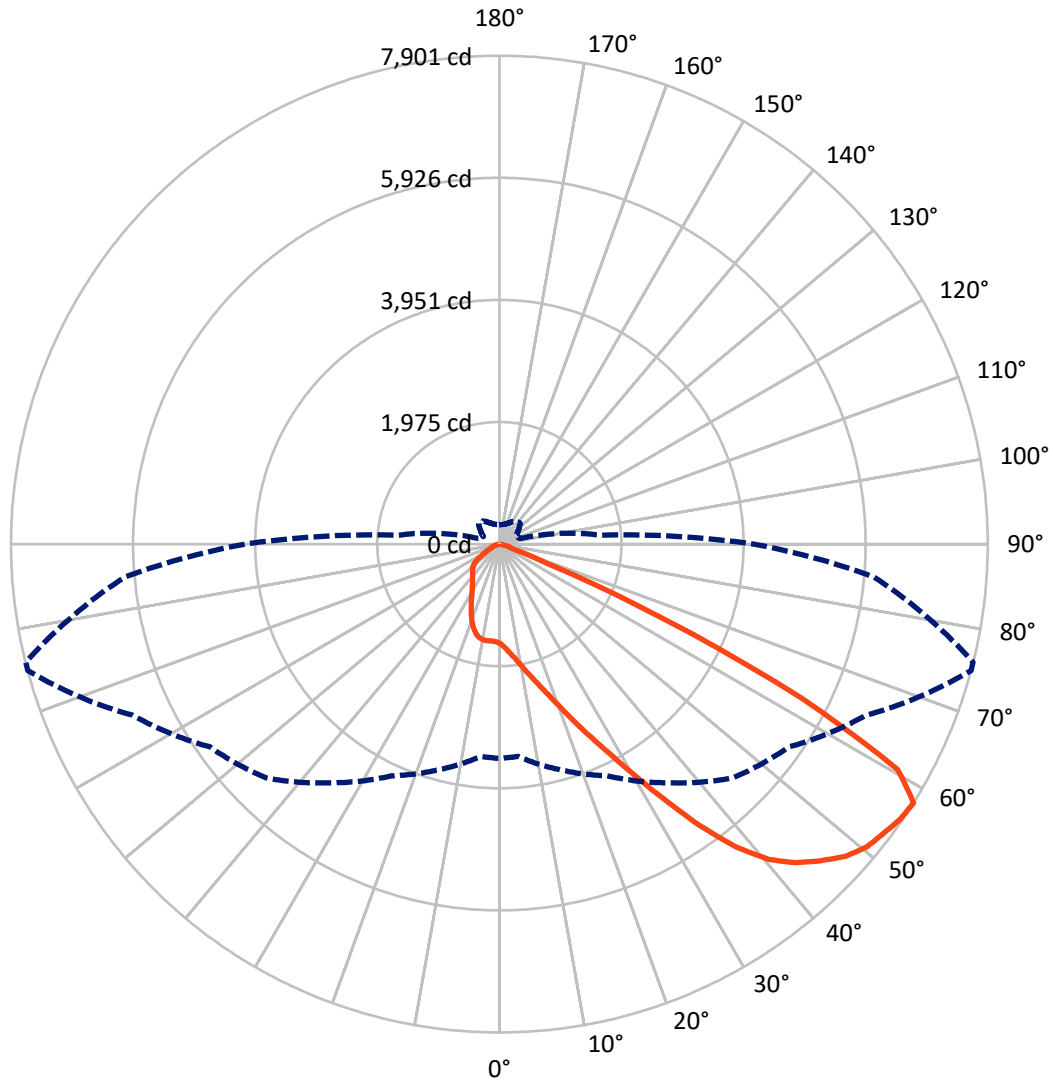
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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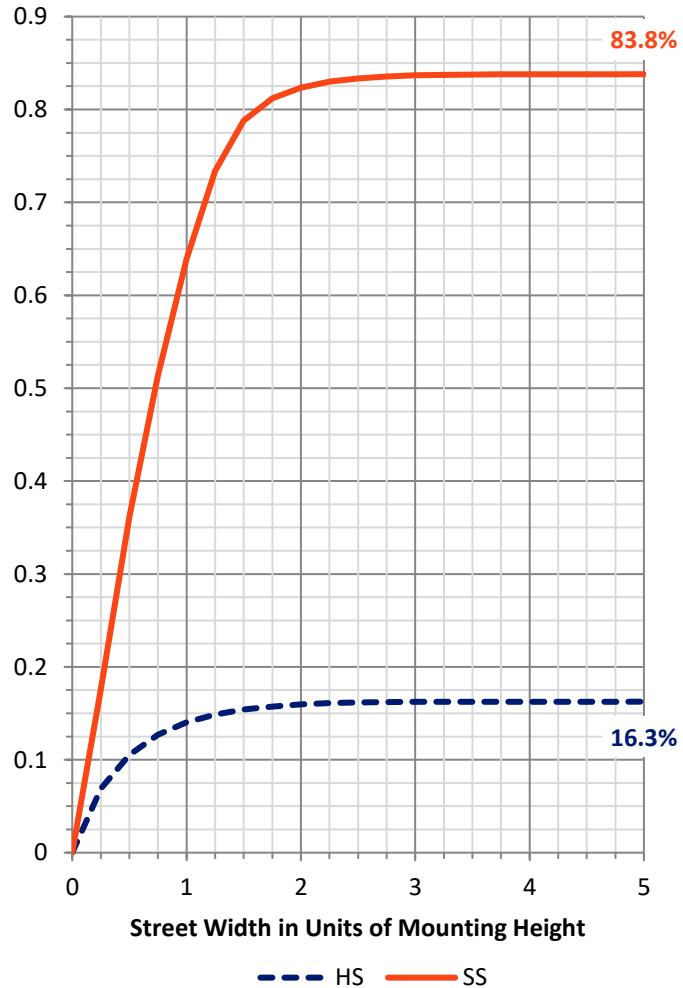
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.1	0.0	1574.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	8062.2	0.0	8062.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	9636.2	0.0	9636.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.7
10°-20°	531.3	5.5
20°-30°	972.9	10.1
30°-40°	1614.1	16.8
40°-50°	2465.1	25.6
50°-60°	2769.9	28.7
60°-70°	1021.7	10.6
70°-80°	97.7	1.0
80°-90°	0.1	0.0
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°	9636.2	100.0
0°-180°	9636.2	100.0

Coefficient of Utilization



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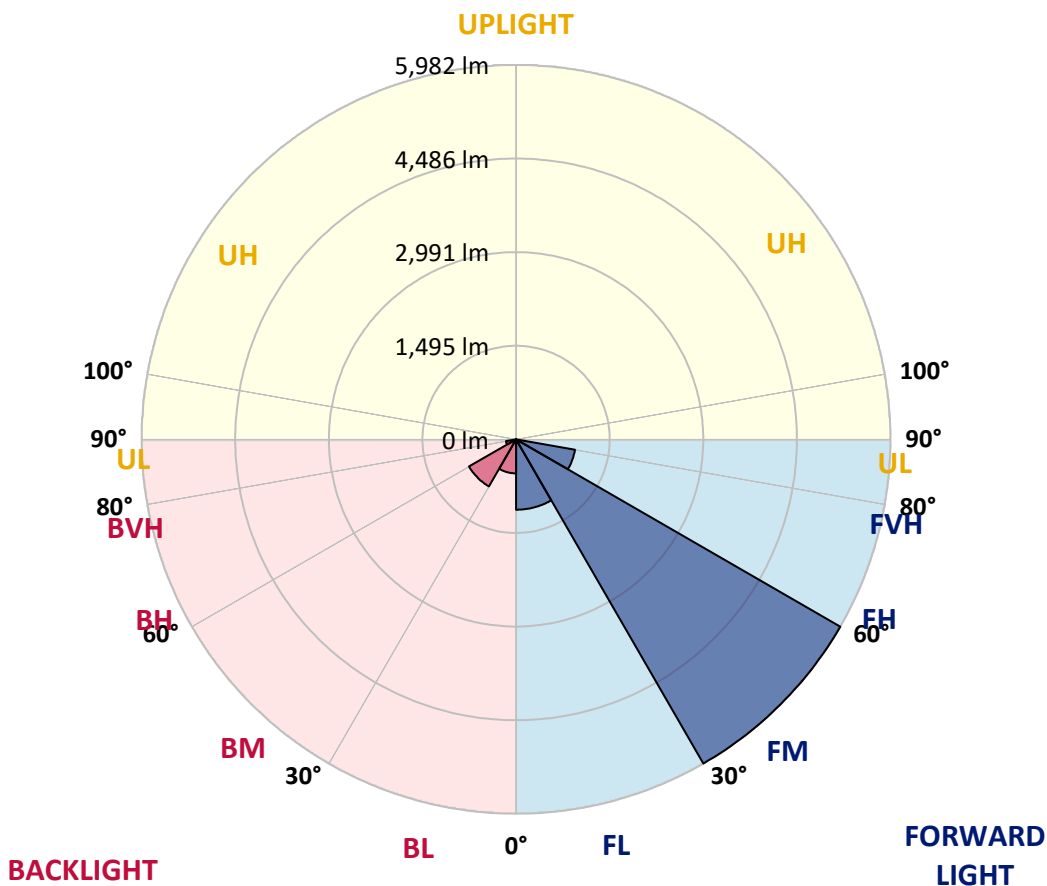
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.5	11.7			
FM (30°-60°)	5981.7	62.1			
FH (60°-80°)	955.9	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	543.1	5.6	B2/1000		
BM (30°-60°)	867.4	9.0	B1/1000		
BH (60°-80°)	163.5	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	76°	85°
0°	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1795.6	1814.2	1808.4	1796.7	1789.8	1765.3	1750.2	1706.0	1674.6	1671.1	1642.1
5°	2022.4	2018.9	2014.2	2000.3	1988.6	1950.3	1904.9	1830.5	1764.2	1756.0	1694.4
7.5°	2146.8	2149.1	2151.4	2149.1	2141.0	2111.9	2061.9	1974.7	1873.5	1866.5	1768.8
10°	2198.0	2202.6	2214.2	2236.3	2256.1	2253.8	2224.7	2135.2	2010.7	1999.1	1867.7
12.5°	2222.4	2228.2	2246.8	2288.7	2342.2	2384.0	2388.7	2308.4	2171.2	2152.6	1985.1
15°	2256.1	2261.9	2285.2	2339.8	2417.8	2500.3	2553.8	2502.6	2349.1	2329.4	2114.2
17.5°	2271.2	2279.4	2313.1	2385.2	2486.4	2613.1	2734.1	2729.4	2559.6	2544.5	2264.2
20°	2300.3	2306.1	2336.3	2414.3	2536.4	2719.0	2922.5	2995.7	2816.6	2794.5	2445.7
22.5°	2392.2	2394.5	2408.5	2457.3	2571.3	2795.7	3114.4	3306.2	3120.2	3091.1	2649.2
25°	2542.2	2541.0	2546.8	2555.0	2638.7	2873.6	3299.3	3656.3	3467.9	3436.5	2879.4
27.5°	2732.9	2732.9	2746.9	2723.6	2757.3	2970.2	3481.8	4058.7	3872.6	3828.4	3131.8
30°	2957.4	2956.2	2988.8	2951.5	2962.0	3122.5	3678.4	4497.1	4361.0	4306.4	3422.5
32.5°	3262.0	3255.1	3292.3	3241.1	3206.2	3352.8	3917.9	4955.3	4946.0	4862.3	3787.7
35°	3647.0	3635.4	3647.0	3597.0	3534.2	3674.9	4231.9	5412.3	5594.9	5506.5	4222.6
37.5°	4029.6	4066.8	4079.6	3993.5	3942.4	4083.1	4609.9	5821.7	6214.8	6122.9	4675.0
40°	4480.8	4469.2	4513.4	4416.8	4384.3	4540.1	4979.7	6126.4	6705.5	6618.3	5077.4
42.5°	4813.4	4834.3	4889.0	4835.5	4809.9	4956.5	5290.2	6304.3	7046.3	6960.2	5364.6
45°	5212.3	5227.4	5248.4	5204.2	5177.4	5321.6	5514.7	6382.2	7305.6	7212.6	5557.7
47.5°	5643.8	5655.4	5655.4	5564.7	5478.6	5537.9	5664.7	6426.4	7544.0	7454.4	5700.7
50°	5953.1	5958.9	6010.1	5946.1	5758.9	5667.0	5733.3	6469.4	7702.2	7618.4	5747.3
52.5°	5678.6	5671.7	5840.3	5972.9	6022.9	5840.3	5851.9	6532.2	7778.9	7706.8	5784.5
55°	4782.0	4770.4	5007.6	5329.8	5770.5	6004.3	5995.0	6569.5	7863.8	7819.6	5919.4
57.5°	3466.7	3447.0	3777.2	4135.4	4713.4	5347.2	5719.3	6548.5	7901.0	7897.5	6076.4
60°	2084.0	2067.7	2379.4	2756.2	3202.7	3840.0	4457.6	5865.9	7403.3	7410.3	5668.2
62.5°	1282.7	1297.8	1579.3	1771.2	1937.5	2129.3	2486.4	3945.9	5484.4	5529.8	3983.1
65°	862.9	874.5	1135.0	1376.9	1376.9	1125.7	966.4	1886.3	2926.0	2849.2	1884.0
67.5°	579.1	591.9	797.8	1080.4	1121.1	785.0	391.9	562.9	815.2	790.8	466.3
70°	340.7	354.7	531.5	740.8	816.4	546.6	261.7	238.4	231.4	224.4	181.4
72.5°	152.3	158.2	271.0	376.8	344.2	230.3	184.9	190.7	180.3	176.8	147.7
75°	46.5	48.8	69.8	81.4	82.6	82.6	111.6	150.0	141.9	143.0	114.0
77.5°	11.6	11.6	18.6	17.4	9.3	8.1	20.9	33.7	34.9	31.4	23.3
80°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1629.3	1599.0	1579.3	1551.4	1531.6	1510.7	1492.1	1476.9	1468.8	1466.5	1467.6
5°	1666.5	1618.8	1572.3	1518.8	1481.6	1446.7	1418.8	1396.7	1386.2	1382.7	1382.7
7.5°	1723.5	1657.2	1574.6	1490.9	1428.1	1373.4	1340.9	1316.4	1307.1	1304.8	1297.8
10°	1797.9	1707.2	1571.1	1440.9	1352.5	1295.5	1272.3	1265.3	1268.8	1269.9	1268.8
12.5°	1887.5	1759.5	1549.0	1367.6	1272.3	1237.4	1239.7	1258.3	1279.2	1289.7	1292.0
15°	1982.8	1807.2	1499.0	1280.4	1203.6	1202.5	1236.2	1279.2	1319.9	1337.4	1342.0
17.5°	2089.8	1845.6	1422.3	1187.4	1144.3	1178.1	1238.5	1304.8	1359.5	1388.6	1394.4
20°	2207.3	1877.0	1324.6	1100.1	1092.0	1152.5	1236.2	1317.6	1385.1	1417.6	1423.4
22.5°	2329.4	1899.1	1211.8	1019.9	1044.3	1123.4	1214.1	1293.2	1357.2	1394.4	1399.0
25°	2468.9	1901.4	1096.7	952.4	1000.1	1083.9	1160.6	1225.7	1279.2	1311.8	1315.3
27.5°	2591.0	1873.5	994.3	897.8	959.4	1035.0	1086.2	1122.2	1159.5	1178.1	1179.2
30°	2731.7	1824.7	897.8	853.6	917.6	974.5	1000.1	1008.3	1011.8	1015.2	1010.6
32.5°	2899.2	1765.3	825.7	810.6	869.9	908.3	915.2	899.0	879.2	851.3	844.3
35°	3105.1	1711.8	766.4	768.7	817.5	840.8	835.0	800.1	761.7	728.0	722.2
37.5°	3328.3	1666.5	721.0	728.0	760.6	776.8	759.4	721.0	703.6	674.5	675.7
40°	3526.0	1629.3	680.3	687.3	702.4	717.5	689.6	664.0	696.6	694.3	696.6
42.5°	3666.8	1597.9	645.4	641.9	652.4	662.9	641.9	629.2	683.8	668.7	676.8
45°	3749.3	1568.8	616.4	595.4	611.7	630.3	616.4	600.1	618.7	548.9	543.1
47.5°	3805.1	1552.5	590.8	550.1	579.1	611.7	582.6	543.1	516.3	455.9	451.2
50°	3811.0	1544.4	560.5	503.6	540.8	575.7	541.9	487.3	448.9	422.1	418.7
52.5°	3841.2	1560.7	518.7	444.2	484.9	540.8	517.5	462.9	410.5	387.3	382.6
55°	3976.1	1629.3	448.9	362.8	422.1	514.0	497.7	412.8	362.8	348.9	345.4
57.5°	4115.6	1643.2	353.5	287.2	367.5	475.6	454.7	380.3	331.4	315.2	311.7
60°	3763.3	1353.7	265.2	237.2	324.5	439.6	421.0	360.5	303.5	283.8	280.3
62.5°	2472.4	731.5	210.5	201.2	273.3	372.1	383.8	325.6	271.0	250.0	248.9
65°	1139.7	339.6	161.6	159.3	214.0	296.5	330.3	284.9	229.1	210.5	210.5
67.5°	310.5	168.6	126.8	117.5	145.4	198.9	240.7	212.8	162.8	140.7	139.6
70°	154.7	136.1	114.0	101.2	104.7	123.3	141.9	118.6	82.6	67.5	66.3
72.5°	126.8	111.6	96.5	86.1	79.1	75.6	73.3	59.3	38.4	29.1	27.9
75°	94.2	80.2	68.6	55.8	47.7	44.2	39.5	29.1	16.3	9.3	8.1
77.5°	20.9	19.8	18.6	14.0	12.8	10.5	8.1	5.8	2.3	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)