

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: P641213

Luminaire Tested: GWS-SA5F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37865.1 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

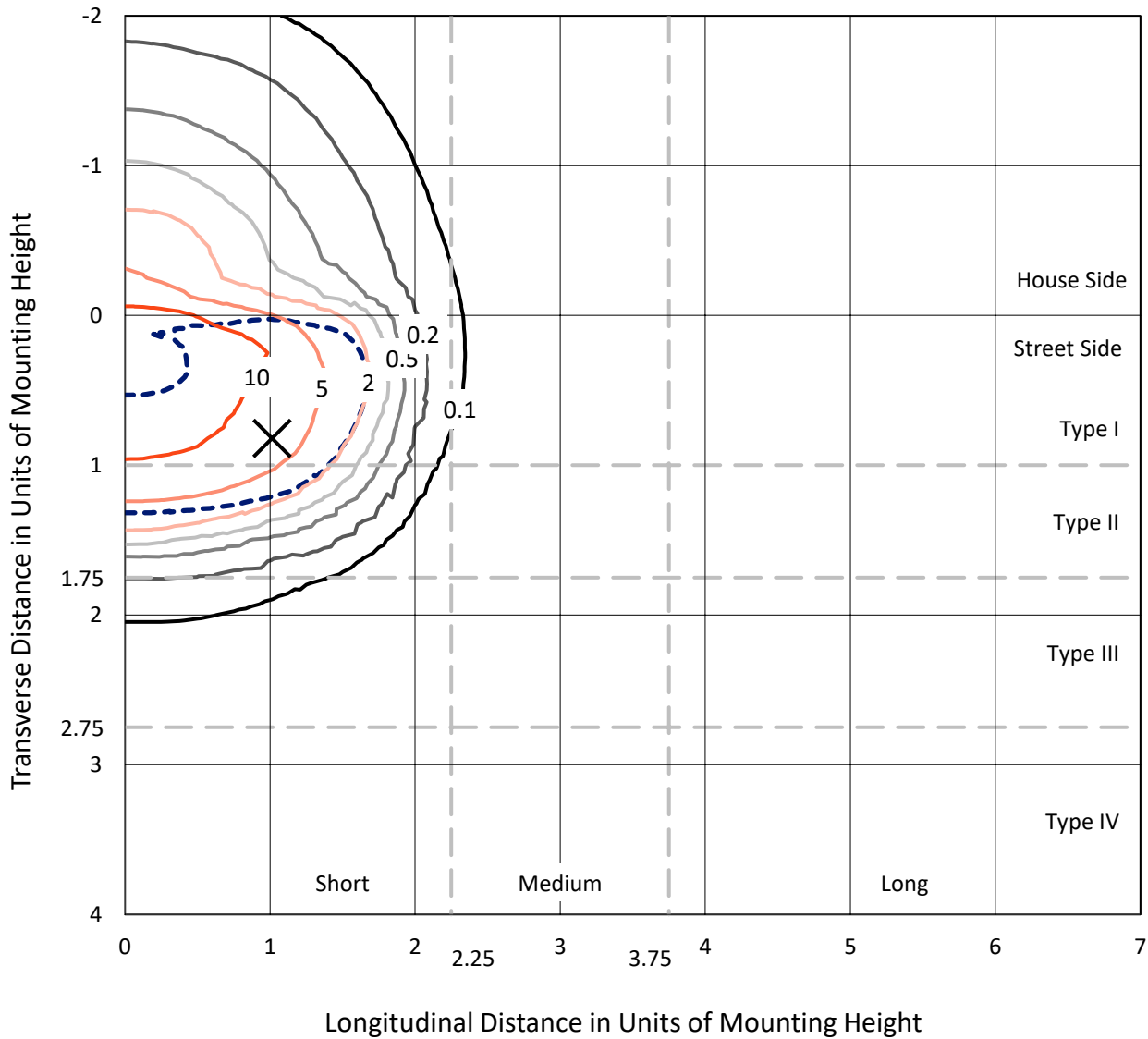
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

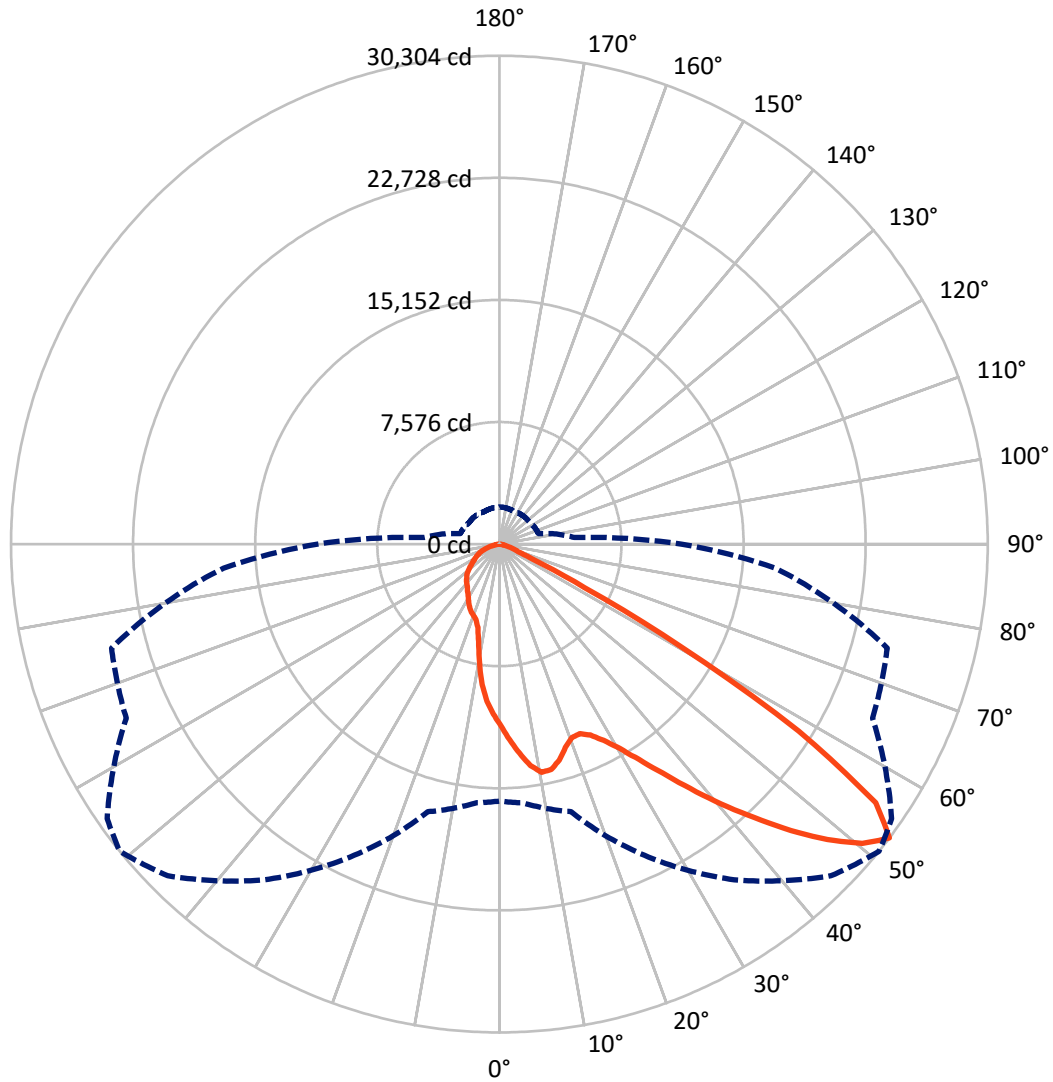
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical



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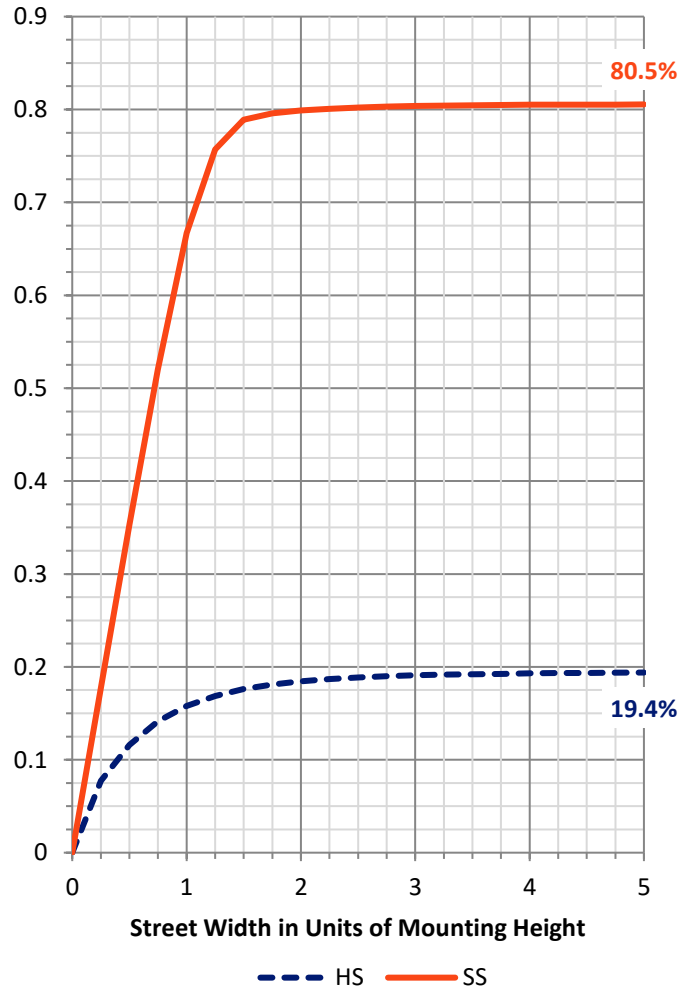
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7377.7	0.0	7377.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	30487.4	0.0	30487.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	37865.1	0.0	37865.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.0	2.8
10°-20°	2733.7	7.2
20°-30°	4444.7	11.7
30°-40°	7043.8	18.6
40°-50°	10623.6	28.1
50°-60°	9190.3	24.3
60°-70°	2083.5	5.5
70°-80°	614.3	1.6
80°-90°	79.1	0.2
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°	37865.1	100.0
0°-180°	37865.1	100.0

Coefficient of Utilization



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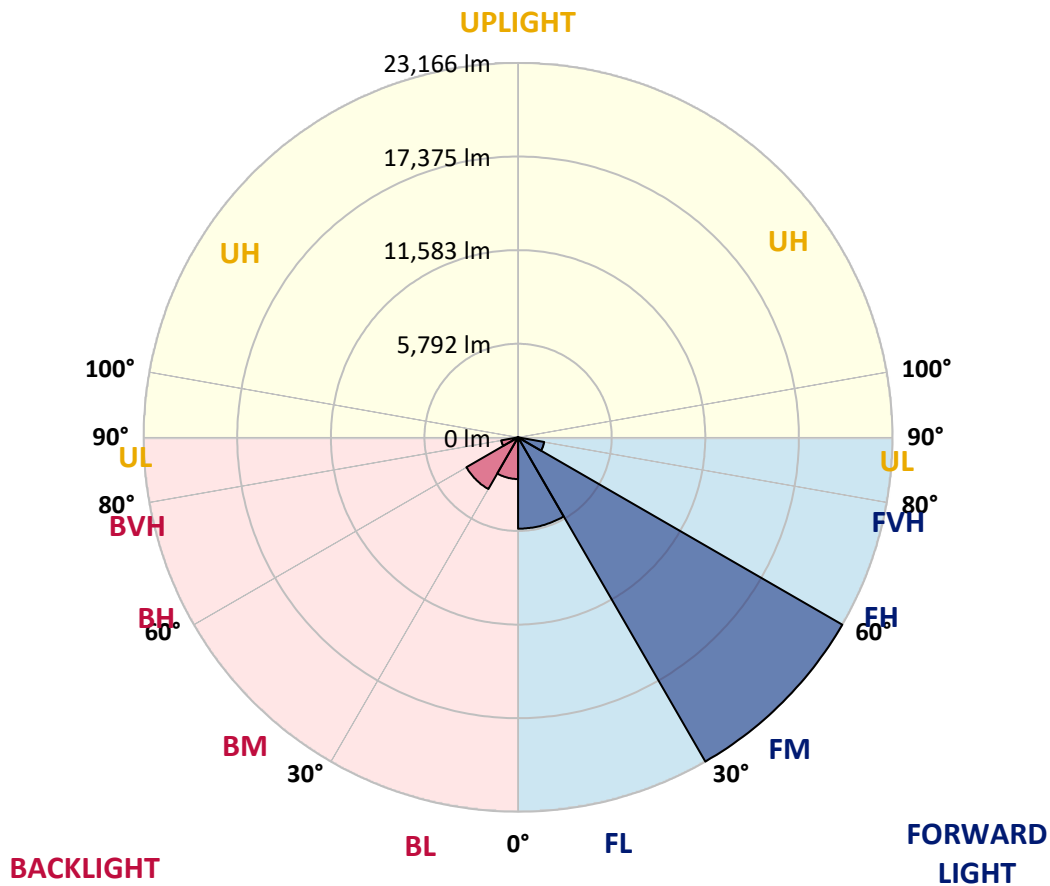
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5651.5	14.9			
FM (30°-60°)	23166.4	61.2			
FH (60°-80°)	1639.7	4.3			G1/1800
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	2578.9	6.8	B4/5000		
BM (30°-60°)	3691.3	9.7	B3/5000		
BH (60°-80°)	1058.2	2.8	B3/2500		G3/2500
BVH (80°-90°)	49.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3
2.5°	12563.9	12635.7	12525.0	12483.1	12414.3	12294.6	12157.0	12118.1	11821.9	11627.4	11409.0
5°	13826.6	13865.5	13775.7	13686.0	13515.4	13303.0	13036.7	12979.8	12441.3	11995.4	11531.7
7.5°	14107.9	14092.9	14170.7	14221.6	14200.6	14116.8	13880.5	13769.8	13126.5	12420.3	11735.1
10°	12994.8	12911.0	13198.3	13539.4	13949.3	14422.0	14395.1	14386.1	13826.6	12991.8	11995.4
12.5°	11519.7	11477.8	11711.2	12139.1	12914.0	13961.3	14353.2	14658.4	14458.0	13536.4	12285.7
15°	10675.9	10660.9	10819.5	11127.7	11744.1	13066.6	13904.4	14508.8	14999.5	14119.8	12593.9
17.5°	10523.3	10532.3	10586.1	10762.7	11205.5	12294.6	13264.1	14107.9	15421.4	14760.2	12979.8
20°	10969.1	11029.0	10936.2	10963.1	11202.5	12016.4	12827.2	13703.9	15690.7	15403.5	13395.7
22.5°	11959.5	11938.6	11735.1	11615.4	11618.4	12186.9	12779.4	13515.4	15867.2	16028.8	13772.8
25°	13081.6	13057.6	12815.3	12549.0	12381.4	12650.7	13123.5	13715.9	16025.8	16600.3	14075.0
27.5°	14407.1	14332.3	14063.0	13721.9	13350.9	13467.6	13787.7	14257.5	16271.2	17162.8	14275.4
30°	15690.7	15777.5	15391.5	14987.6	14595.6	14523.8	14709.3	15134.2	16770.9	17821.1	14514.8
32.5°	17393.2	17363.3	16935.4	16408.8	15849.3	15795.4	15942.0	16331.0	17668.5	18730.7	14879.8
35°	19454.8	19460.8	18853.4	18141.3	17345.4	17201.7	17447.1	17824.1	19006.0	19963.5	15457.3
37.5°	21597.2	21588.2	21058.6	20250.7	19164.6	18961.1	19242.4	19523.6	20678.6	21642.0	16355.0
40°	23099.2	23159.1	22910.7	22485.8	21456.5	20959.8	21208.2	21402.7	22497.8	23616.8	17536.8
42.5°	23952.0	24041.7	24095.6	24349.9	23808.3	23278.7	23189.0	23290.7	24122.5	25451.0	18646.9
45°	24134.5	24254.2	24646.1	25588.7	25798.1	25648.5	25355.3	25109.9	25334.3	26752.6	19374.0
47.5°	23329.6	23539.1	24376.8	26025.5	27249.3	27719.1	27392.9	27018.9	26034.5	27087.7	19299.2
50°	20140.0	20385.4	22273.4	25133.9	27455.7	29167.2	29197.2	28643.6	25950.7	26121.3	18359.7
52.5°	15945.0	16112.6	17192.8	21306.9	25430.1	29107.4	30304.2	29711.8	25546.8	24912.4	17183.8
55°	9529.9	9799.2	10807.6	14057.0	19810.9	25798.1	28347.4	28634.6	25349.3	23898.1	16381.9
57.5°	3216.5	3348.2	4311.7	6208.7	11675.3	18889.3	21902.4	23069.3	23012.4	22348.2	14817.0
60°	1532.0	1561.9	1756.4	2354.8	4673.7	9871.0	12964.9	14311.3	15538.1	15660.8	9218.7
62.5°	1166.9	1184.9	1283.6	1412.3	1879.1	4159.1	5942.4	6971.7	7447.4	6391.2	3357.2
65°	975.4	990.4	1065.2	1146.0	1277.6	1801.3	2280.0	2630.1	2369.8	1846.1	1600.8
67.5°	813.9	825.8	882.7	969.4	1059.2	1205.8	1265.7	1301.6	1364.4	1532.0	1472.1
70°	637.3	649.3	709.1	783.9	870.7	906.6	963.5	999.4	1125.0	1340.5	1334.5
72.5°	490.7	505.7	538.6	586.5	658.3	694.2	757.0	798.9	870.7	1044.3	1116.1
75°	359.1	368.0	398.0	412.9	421.9	412.9	475.7	523.6	619.4	685.2	703.1
77.5°	146.6	164.6	158.6	158.6	188.5	227.4	260.3	290.2	356.1	395.0	398.0
80°	59.8	65.8	77.8	86.8	104.7	134.6	155.6	167.6	197.5	221.4	239.4
82.5°	35.9	38.9	44.9	47.9	59.8	77.8	89.8	98.7	122.7	146.6	155.6
85°	18.0	18.0	20.9	23.9	29.9	35.9	41.9	47.9	62.8	77.8	86.8
87.5°	3.0	3.0	3.0	6.0	9.0	12.0	15.0	18.0	20.9	23.9	29.9
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°	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3	11274.3
2.5°	11280.3	11118.7	10930.2	10780.6	10607.1	10478.4	10295.9	10182.2	10074.5	9984.7	9918.9
5°	11292.3	11020.0	10628.0	10280.9	9921.9	9580.8	9230.7	8946.5	8692.1	8479.7	8461.7
7.5°	11361.1	10969.1	10355.7	9748.3	9048.2	8372.0	7695.7	7145.2	6726.3	6507.9	6463.0
10°	11477.8	10963.1	10077.5	9108.0	7914.2	6825.0	6023.1	5604.3	5361.9	5275.1	5245.2
12.5°	11600.5	10948.2	9721.4	8204.4	6546.8	5592.3	5152.4	5101.6	5146.5	5152.4	5149.4
15°	11750.1	10939.2	9272.6	7145.2	5547.4	5020.8	5050.7	5158.4	5263.1	5287.1	5287.1
17.5°	11932.6	10918.3	8662.2	6109.9	4922.0	4910.1	5068.7	5212.3	5311.0	5329.0	5329.0
20°	12124.1	10864.4	7911.2	5266.1	4667.7	4841.3	5011.8	5122.5	5191.3	5215.3	5218.3
22.5°	12255.7	10720.8	7046.5	4640.8	4509.1	4709.6	4832.3	4946.0	4946.0	4886.1	4868.2
25°	12282.7	10412.6	6109.9	4212.9	4320.6	4506.1	4631.8	4566.0	4443.3	4395.4	4392.4
27.5°	12183.9	9963.8	5185.4	3907.7	4093.2	4278.7	4257.8	4162.0	4108.2	4060.3	4078.3
30°	12064.3	9425.2	4383.5	3656.4	3829.9	4012.4	3940.6	3907.7	3868.8	3815.0	3826.9
32.5°	11983.5	8823.8	3767.1	3461.9	3653.4	3683.3	3734.2	3731.2	3695.3	3593.5	3587.6
35°	12007.4	8216.4	3354.2	3303.3	3506.8	3494.8	3590.6	3572.6	3324.3	3183.6	3174.6
37.5°	12198.9	7632.9	3111.8	3177.6	3273.4	3348.2	3432.0	3216.5	3129.8	3040.0	3046.0
40°	12563.9	7091.3	2980.2	3108.8	3132.8	3243.5	3049.0	3046.0	3007.1	2926.3	2923.3
42.5°	12976.8	6633.5	2890.4	3075.9	3043.0	3063.9	2857.5	2881.4	2878.4	2827.6	2812.6
45°	13228.2	6211.7	2818.6	2953.2	2962.2	2752.8	2689.9	2716.9	2731.8	2704.9	2701.9
47.5°	12967.9	5726.9	2743.8	2764.7	2842.5	2612.1	2534.3	2537.3	2564.3	2567.2	2555.3
50°	12237.8	5185.4	2654.0	2603.1	2552.3	2465.5	2393.7	2378.7	2405.7	2432.6	2441.6
52.5°	11295.3	4667.7	2504.4	2426.6	2306.9	2306.9	2274.0	2226.1	2262.0	2298.0	2309.9
55°	10604.1	4284.7	2292.0	2205.2	2073.5	2118.4	2112.4	2070.6	2118.4	2145.4	2154.3
57.5°	9188.8	3443.9	2016.7	1989.8	1879.1	1932.9	1944.9	1891.0	1867.1	1873.1	1882.0
60°	5454.6	2223.1	1819.2	1816.2	1717.5	1780.3	1816.2	1762.4	1690.6	1699.5	1711.5
62.5°	2447.6	1699.5	1570.9	1558.9	1555.9	1636.7	1675.6	1624.7	1523.0	1532.0	1543.9
65°	1540.9	1469.1	1364.4	1364.4	1412.3	1481.1	1511.0	1469.1	1352.4	1337.5	1349.4
67.5°	1430.2	1367.4	1259.7	1238.7	1262.7	1319.5	1322.5	1241.7	1172.9	1160.9	1160.9
70°	1283.6	1235.7	1131.0	1089.1	1080.2	1077.2	1068.2	1047.2	1002.4	990.4	996.4
72.5°	1062.2	1029.3	963.5	918.6	894.6	891.7	855.7	837.8	798.9	792.9	789.9
75°	703.1	712.1	712.1	706.1	685.2	676.2	637.3	619.4	574.5	556.5	553.5
77.5°	415.9	424.9	436.9	439.8	436.9	436.9	400.9	380.0	335.1	311.2	305.2
80°	254.3	260.3	266.3	275.3	263.3	254.3	221.4	200.5	179.5	164.6	161.6
82.5°	164.6	170.6	173.5	179.5	173.5	161.6	134.6	122.7	107.7	95.7	92.8
85°	92.8	95.7	101.7	101.7	92.8	83.8	68.8	59.8	50.9	44.9	44.9
87.5°	32.9	32.9	32.9	35.9	29.9	26.9	18.0	12.0	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

(END OF REPORT)