

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: P633936

Luminaire Tested: GWS-SA2F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633936
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-SA2F-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14349.4 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

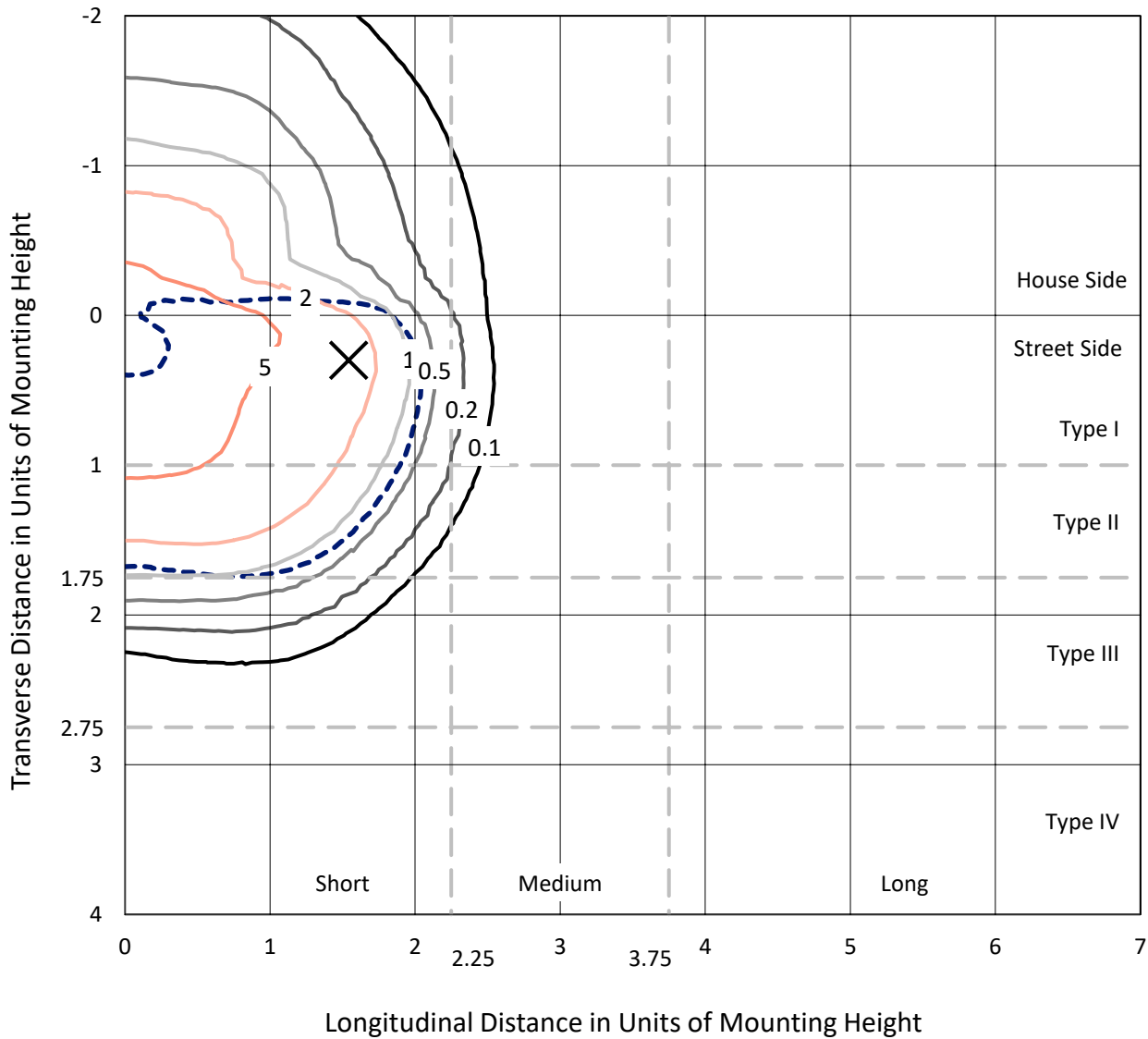
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

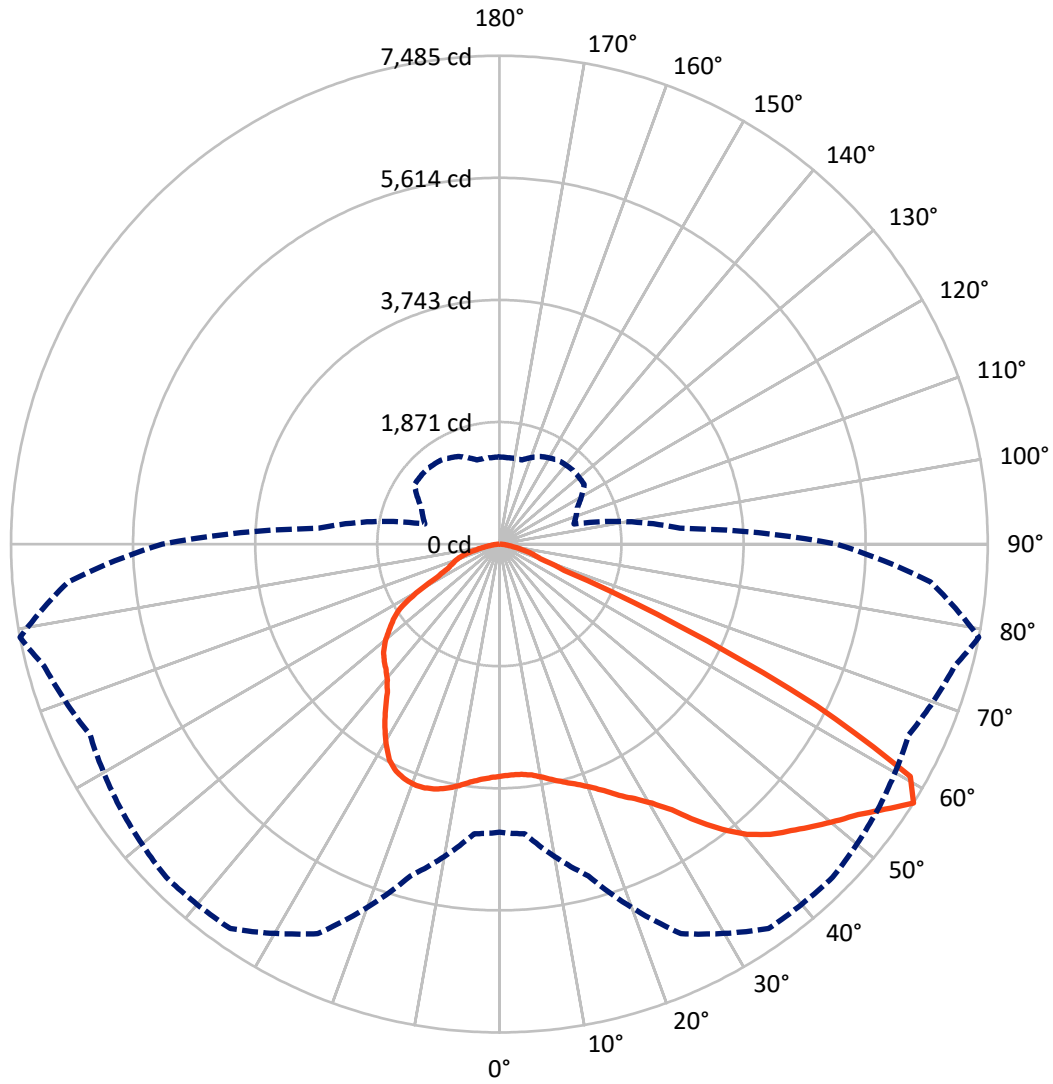
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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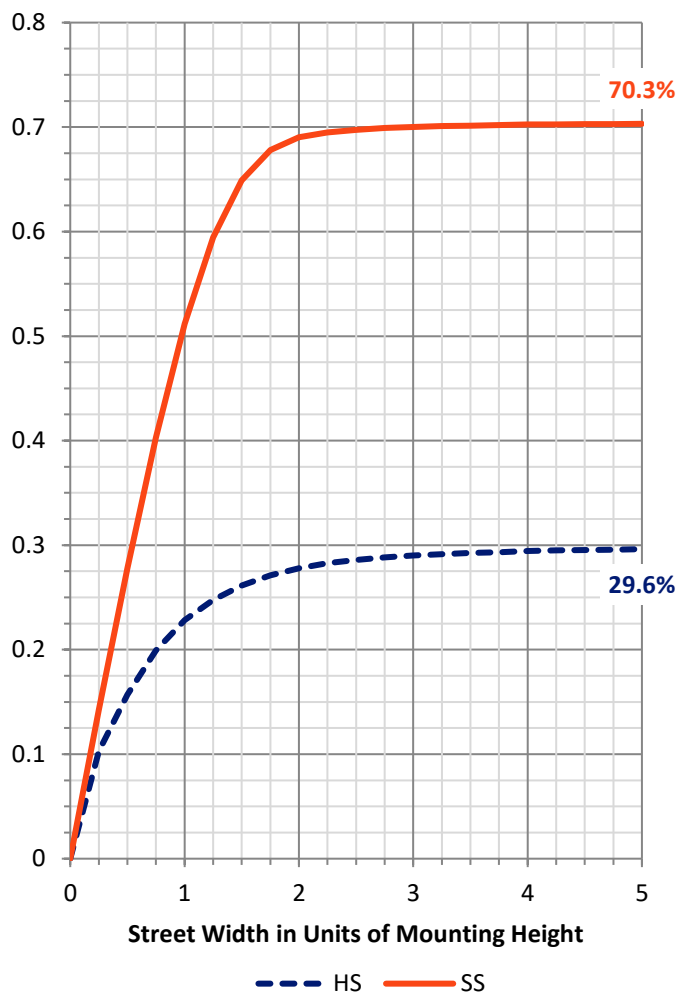
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4265.4	0.0	4265.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10084.0	0.0	10084.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	14349.4	0.0	14349.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	2.3
10°-20°	915.2	6.4
20°-30°	1551.3	10.8
30°-40°	2374.5	16.5
40°-50°	3166.1	22.1
50°-60°	3656.6	25.5
60°-70°	1900.1	13.2
70°-80°	403.9	2.8
80°-90°	52.3	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°	14349.4	100.0
0°-180°	14349.4	100.0

Coefficient of Utilization



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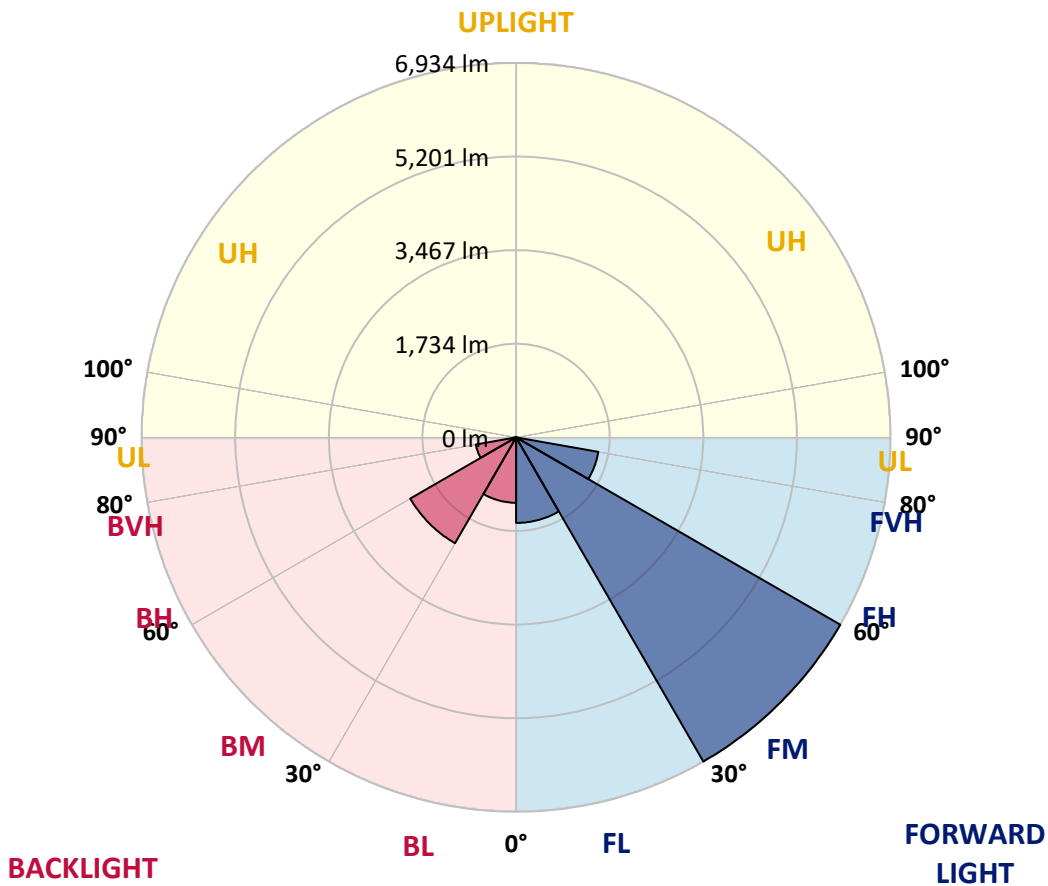
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.5	11.0			
FM (30°-60°)	6934.0	48.3			
FH (60°-80°)	1547.2	10.8			G1/1800
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1211.3	8.4	B3/2500		
BM (30°-60°)	2263.2	15.8	B2/2500		
BH (60°-80°)	756.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1
2.5°	3394.2	3387.2	3389.5	3398.9	3434.1	3459.9	3486.9	3511.5	3535.0	3542.0	3547.9
5°	3273.4	3260.5	3264.0	3279.2	3320.3	3363.7	3411.8	3470.5	3526.8	3545.6	3570.2
7.5°	3187.7	3185.4	3191.2	3214.7	3258.1	3299.2	3361.4	3444.7	3542.0	3573.7	3617.1
10°	3073.9	3069.2	3092.7	3140.8	3212.4	3278.1	3352.0	3450.5	3586.6	3633.5	3700.4
12.5°	2983.6	2981.2	3005.9	3072.7	3164.2	3268.7	3370.7	3481.0	3646.5	3711.0	3793.1
15°	3036.4	3025.8	3027.0	3073.9	3156.0	3279.2	3417.7	3536.2	3706.3	3788.4	3894.0
17.5°	3190.1	3171.3	3157.2	3165.4	3212.4	3340.2	3489.2	3610.1	3775.5	3871.7	4000.8
20°	3402.4	3391.9	3353.1	3327.3	3337.9	3450.5	3601.9	3714.5	3865.9	3973.8	4112.2
22.5°	3687.5	3661.7	3608.9	3567.8	3536.2	3624.2	3763.8	3861.2	3991.4	4104.0	4248.3
25°	4040.7	4003.1	3919.8	3855.3	3787.2	3877.6	4001.9	4075.9	4163.9	4268.3	4405.5
27.5°	4400.9	4369.2	4276.5	4189.7	4105.2	4161.5	4309.3	4351.6	4342.2	4418.4	4535.8
30°	4784.5	4744.6	4656.6	4562.8	4453.6	4490.0	4622.6	4643.7	4544.0	4607.3	4687.1
32.5°	5189.3	5150.6	5074.3	4965.2	4842.0	4856.1	4892.4	4912.4	4817.4	4853.7	4914.7
35°	5601.1	5564.7	5487.3	5379.3	5289.0	5203.4	5111.8	5191.6	5136.5	5206.9	5202.2
37.5°	5977.7	5941.3	5893.2	5809.9	5655.1	5486.1	5274.9	5373.5	5459.1	5548.3	5533.0
40°	6232.3	6207.7	6219.4	6206.5	6007.0	5672.7	5354.7	5462.6	5696.1	5848.6	5840.4
42.5°	6451.7	6427.0	6495.1	6544.4	6309.7	5845.1	5393.4	5496.7	5847.5	6085.6	6073.9
45°	6549.1	6542.0	6654.7	6810.7	6586.6	6028.1	5493.1	5567.1	5962.4	6267.5	6222.9
47.5°	6432.9	6457.6	6679.3	6943.3	6816.6	6245.2	5697.3	5716.1	6112.6	6464.6	6339.1
50°	6201.8	6255.8	6554.9	6946.8	6984.3	6490.4	5980.0	5933.1	6314.4	6674.6	6400.1
52.5°	5865.1	5921.4	6409.5	6919.8	7080.5	6774.3	6356.7	6289.8	6569.0	6884.6	6410.6
55°	5091.9	5168.2	6076.2	6858.8	7174.4	7032.4	6781.4	6645.3	6897.5	7173.2	6515.0
57.5°	4417.3	4457.2	5264.4	6587.8	7193.2	7222.5	7084.1	6922.2	7223.7	7485.3	6632.4
60°	3241.7	3251.1	3977.3	5450.9	6617.1	7112.2	7059.4	6818.9	7068.8	7235.4	6095.0
62.5°	1831.4	1832.6	2412.2	3638.2	4942.9	5797.0	5829.9	5617.5	5407.5	5456.8	4242.5
65°	687.5	752.1	1101.7	1788.0	2849.8	3422.4	3558.5	3607.7	3258.1	3041.1	2274.9
67.5°	459.9	475.2	642.9	919.8	1268.3	1464.2	1637.9	1642.5	1201.4	1071.2	896.4
70°	350.8	366.1	505.7	658.2	642.9	593.7	641.8	624.2	645.3	662.9	681.7
72.5°	261.6	276.9	391.9	464.6	386.0	380.1	430.6	478.7	523.3	542.0	571.4
75°	173.6	185.4	264.0	248.7	213.5	252.2	314.4	362.5	388.3	410.6	432.9
77.5°	110.3	118.5	140.8	113.8	118.5	147.8	183.0	226.4	251.1	273.4	285.1
80°	50.4	49.3	48.1	54.0	66.9	86.8	110.3	136.1	154.9	164.3	171.3
82.5°	19.9	22.3	24.6	29.3	36.4	46.9	62.2	79.8	95.0	97.4	103.2
85°	8.2	9.4	10.6	12.9	16.4	21.1	25.8	36.4	45.8	49.3	52.8
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	3.5	5.9	10.6	11.7	12.9
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°	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1	3556.1
2.5°	3579.6	3564.3	3590.1	3607.7	3624.2	3606.6	3600.7	3585.4	3583.1	3583.1	3591.3
5°	3612.4	3601.9	3628.9	3639.4	3638.2	3599.5	3576.1	3545.6	3530.3	3530.3	3532.6
7.5°	3671.1	3665.2	3680.5	3664.1	3626.5	3547.9	3470.5	3405.9	3362.5	3340.2	3347.3
10°	3768.5	3761.4	3748.5	3687.5	3579.6	3416.5	3258.1	3140.8	3070.4	3030.5	3032.8
12.5°	3863.5	3851.8	3806.0	3671.1	3449.3	3190.1	2982.4	2851.0	2773.6	2726.6	2716.1
15°	3967.9	3937.4	3838.9	3586.6	3237.0	2913.2	2696.1	2554.2	2470.9	2442.7	2441.5
17.5°	4067.6	4013.7	3835.3	3436.4	2982.4	2623.4	2405.2	2317.2	2303.1	2316.0	2319.5
20°	4168.5	4081.7	3796.6	3228.8	2679.7	2334.8	2222.1	2258.5	2311.3	2346.5	2354.7
22.5°	4273.0	4138.0	3708.6	2961.3	2360.6	2140.0	2186.9	2266.7	2332.4	2379.3	2384.0
25°	4390.3	4190.8	3577.2	2633.9	2104.8	2086.0	2178.7	2263.2	2333.6	2387.6	2396.9
27.5°	4457.2	4192.0	3393.0	2297.2	1987.5	2064.9	2158.8	2238.6	2309.0	2367.6	2378.2
30°	4522.9	4160.3	3100.9	2023.9	1953.5	2040.3	2124.8	2198.7	2265.5	2323.0	2335.9
32.5°	4615.6	4131.0	2764.2	1866.6	1933.5	2016.8	2086.0	2151.7	2203.4	2229.2	2236.2
35°	4730.5	4093.5	2406.3	1798.6	1920.6	1998.0	2059.0	2094.2	2027.4	2013.3	2028.5
37.5°	4891.3	4058.3	2049.7	1769.3	1912.4	1991.0	2045.0	1954.6	1872.5	1839.7	1851.4
40°	5064.9	4038.3	1808.0	1745.8	1915.9	1998.0	1986.3	1852.6	1734.1	1664.8	1662.5
42.5°	5212.7	4007.8	1653.1	1730.5	1925.3	2025.0	1906.5	1762.2	1586.2	1545.2	1546.3
45°	5312.5	3930.4	1571.0	1714.1	1933.5	2030.9	1869.0	1637.9	1512.3	1486.5	1485.3
47.5°	5353.5	3789.6	1518.2	1688.3	1932.3	1982.8	1792.7	1586.2	1460.7	1453.7	1458.3
50°	5326.5	3558.5	1464.2	1637.9	1904.2	1932.3	1704.7	1540.5	1425.5	1464.2	1492.4
52.5°	5226.8	3259.3	1399.7	1568.6	1853.7	1874.8	1660.1	1512.3	1399.7	1451.3	1473.6
55°	5201.0	3016.4	1317.6	1478.3	1778.6	1772.8	1613.2	1498.2	1382.1	1362.1	1365.7
57.5°	5167.0	2779.4	1181.5	1316.4	1588.6	1598.0	1568.6	1481.8	1336.3	1330.5	1336.3
60°	4488.8	2130.6	1053.6	1135.7	1304.7	1355.1	1518.2	1451.3	1262.4	1237.8	1236.6
62.5°	2931.9	1290.6	937.4	990.2	1063.0	1121.6	1384.4	1363.3	1181.5	1166.2	1176.8
65°	1576.8	919.8	853.0	884.6	924.5	969.1	1147.4	1214.3	1067.7	1013.7	1014.9
67.5°	806.0	782.6	789.6	811.9	842.4	864.7	925.7	984.4	910.4	864.7	863.5
70°	689.9	708.6	719.2	732.1	752.1	748.5	754.4	765.0	759.1	736.8	735.6
72.5°	587.8	617.1	619.5	621.8	628.9	612.4	601.9	584.3	585.5	589.0	590.1
75°	447.0	475.2	482.2	478.7	485.7	464.6	450.5	432.9	411.8	408.3	410.6
77.5°	291.0	313.3	323.8	321.5	325.0	308.6	301.5	282.8	258.1	248.7	248.7
80°	176.0	188.9	197.1	199.5	203.0	191.2	179.5	163.1	152.5	142.0	142.0
82.5°	106.8	115.0	120.8	120.8	124.4	111.5	102.1	90.3	85.6	76.3	76.3
85°	54.0	59.8	62.2	61.0	58.7	48.1	44.6	38.7	36.4	31.7	31.7
87.5°	12.9	16.4	16.4	11.7	11.7	5.9	3.5	1.2	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)