

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: P638363

Luminaire Tested: GWS-SA4E-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18058.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

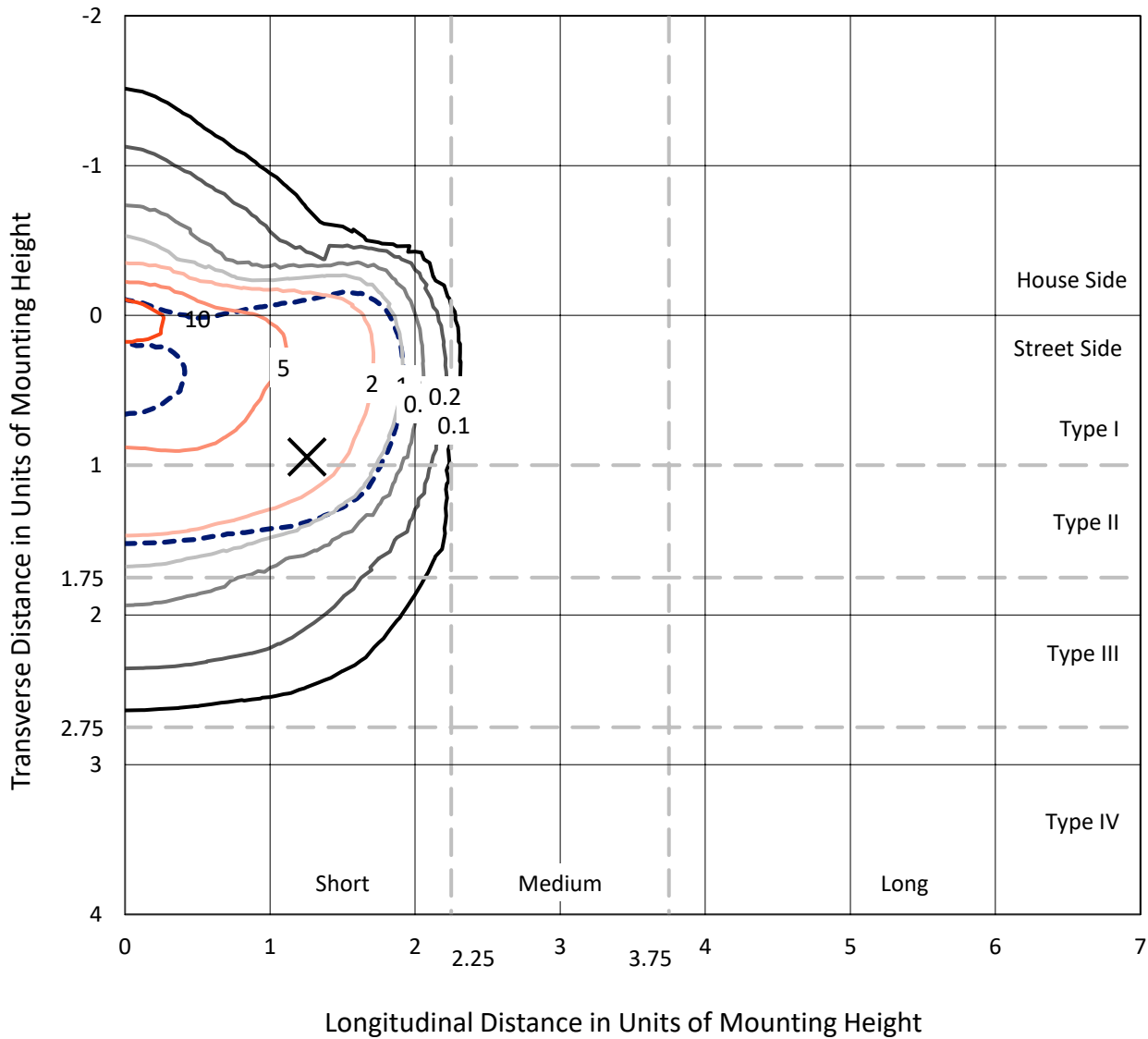
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638363
 CATALOG NUMBER: GWS-SA4E-760-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

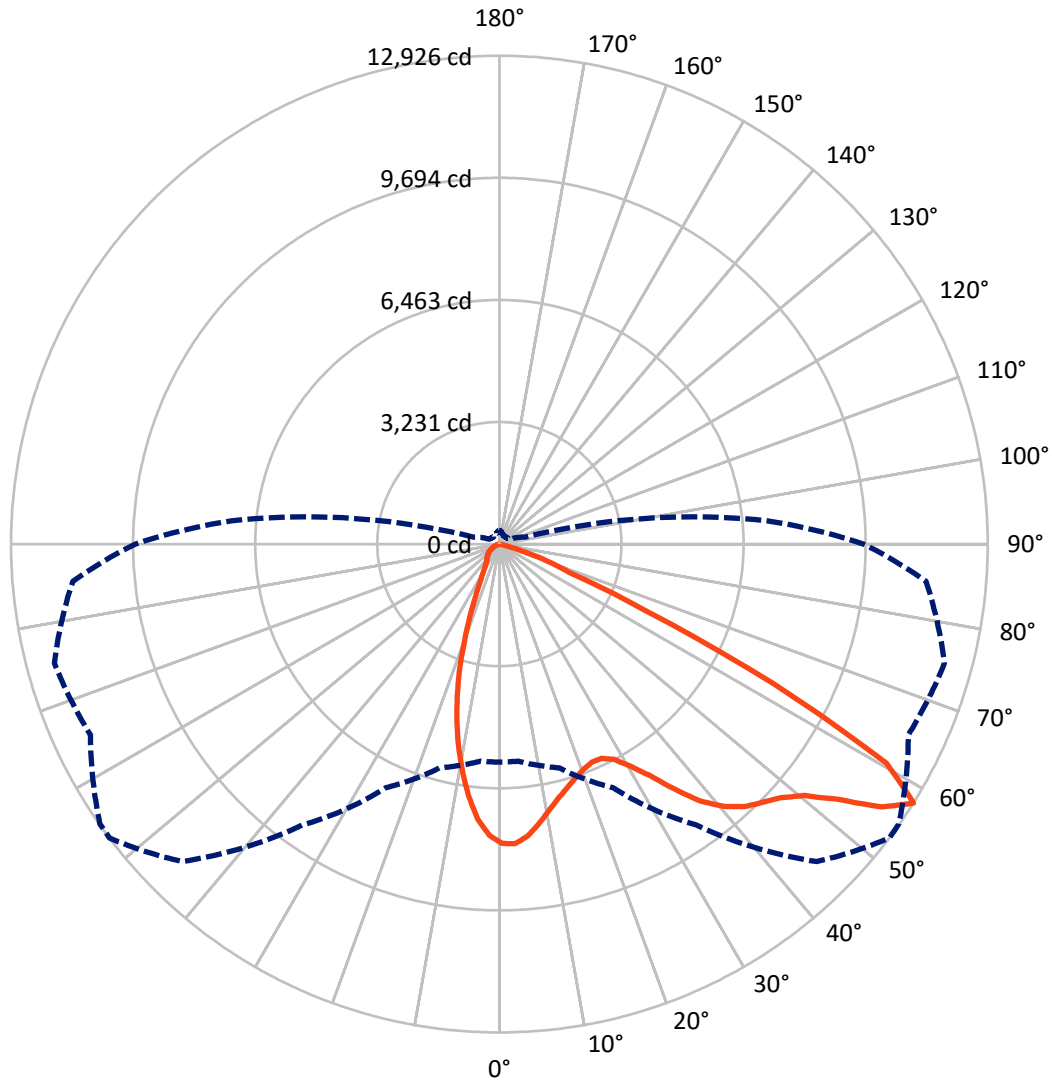
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P638363
CATALOG NUMBER: GWS-SA4E-760-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638363

CATALOG NUMBER: GWS-SA4E-760-U-SL3-W-GRSBK

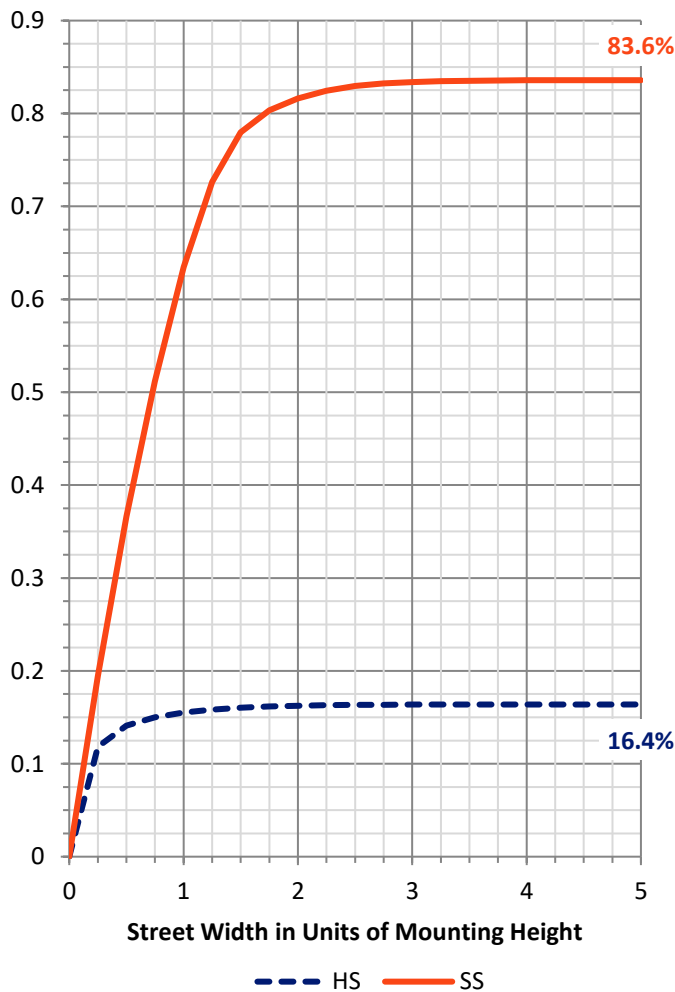
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2983.0	0.0	2983.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15075.6	0.0	15075.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	18058.6	0.0	18058.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.8	3.8
10°-20°	1487.9	8.2
20°-30°	1938.4	10.7
30°-40°	2811.6	15.6
40°-50°	4057.0	22.5
50°-60°	4906.5	27.2
60°-70°	1999.7	11.1
70°-80°	179.7	1.0
80°-90°	0.0	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°	18058.6	100.0
0°-180°	18058.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638363

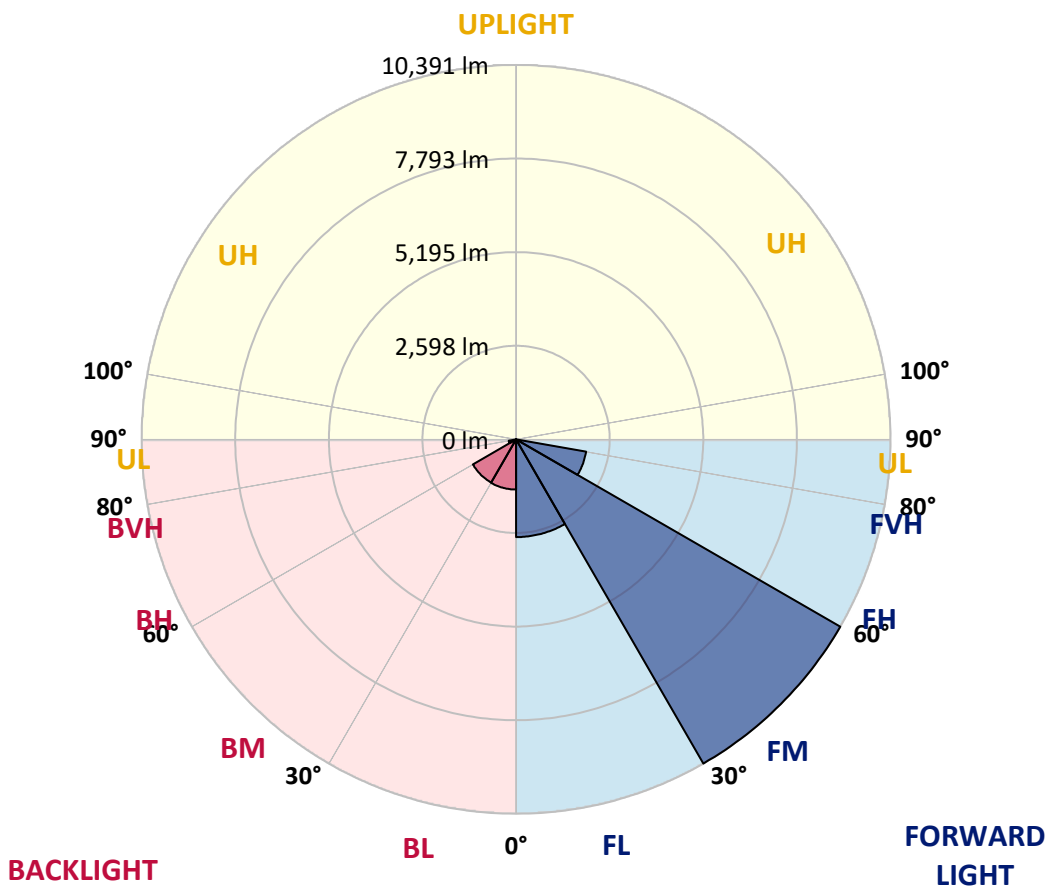
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2711.8	15.0			
FM (30°-60°)	10390.6	57.5			
FH (60°-80°)	1973.2	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1392.2	7.7	B3/2500		
BM (30°-60°)	1384.6	7.7	B2/2500		
BH (60°-80°)	206.2	1.1	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: B3-U0-G2

Type II Short





REPORT NUMBER: P638363

CATALOG NUMBER: GWS-SA4E-760-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5
2.5°	7810.9	7828.6	7859.6	7899.4	7926.0	7939.2	7939.2	7976.9	7952.5	7932.6	7910.5
5°	7476.7	7494.4	7536.4	7600.6	7664.8	7711.3	7764.4	7804.2	7819.7	7819.7	7782.1
7.5°	7005.2	7029.6	7056.1	7144.7	7284.1	7388.1	7478.9	7536.4	7620.5	7647.1	7594.0
10°	6498.4	6522.7	6582.5	6704.2	6863.6	7018.5	7173.4	7246.5	7390.3	7465.6	7405.8
12.5°	6069.0	6080.0	6159.7	6305.8	6509.4	6721.9	6910.0	6985.3	7188.9	7301.8	7231.0
15°	5714.8	5721.5	5801.2	5962.7	6197.3	6458.5	6695.3	6772.8	7022.9	7193.3	7087.1
17.5°	5447.0	5449.2	5517.8	5692.7	5938.4	6228.3	6509.4	6604.6	6927.7	7133.6	6974.2
20°	5312.0	5305.4	5354.1	5506.8	5739.2	6029.1	6361.1	6478.4	6874.6	7124.7	6887.9
22.5°	5314.2	5298.7	5318.6	5427.1	5624.1	5896.3	6268.2	6401.0	6879.0	7162.4	6814.9
25°	5440.4	5418.2	5422.7	5480.2	5619.7	5867.6	6281.4	6423.1	6967.6	7288.5	6788.3
27.5°	5652.9	5628.5	5628.5	5657.3	5732.5	5958.3	6447.4	6609.0	7204.4	7534.2	6843.6
30°	5927.3	5903.0	5894.1	5922.9	5984.9	6192.9	6817.1	6985.3	7609.5	7937.0	7020.7
32.5°	6241.6	6212.8	6228.3	6268.2	6327.9	6615.7	7292.9	7516.5	8116.3	8479.3	7339.4
35°	6573.6	6549.3	6620.1	6706.4	6799.4	7202.2	7950.3	8145.1	8738.3	9154.4	7826.4
37.5°	6890.1	6879.0	7027.3	7208.8	7401.4	7906.0	8618.7	8769.2	9271.7	9889.2	8421.7
40°	7206.6	7204.4	7458.9	7777.7	8085.3	8607.7	9125.6	9249.5	9597.0	10460.2	8992.8
42.5°	7560.8	7560.8	7912.7	8337.6	8747.1	9200.8	9497.4	9552.8	9743.1	10790.0	9422.2
45°	7899.4	7919.3	8326.6	8820.1	9304.9	9663.4	9754.2	9758.6	9802.9	10984.8	9778.5
47.5°	8167.2	8184.9	8671.9	9240.7	9763.0	10015.3	10028.6	10008.7	9960.0	11170.7	10053.0
50°	8384.1	8410.7	8919.7	9521.8	10077.3	10354.0	10455.8	10435.9	10311.9	11369.9	10245.5
52.5°	8490.4	8528.0	9006.1	9661.2	10427.0	10933.9	11217.2	11263.7	10838.7	11480.6	10429.2
55°	7640.4	7695.8	8136.2	9032.6	10621.8	11830.3	12275.2	12266.3	11409.7	11810.4	10876.3
57.5°	5770.2	5765.7	6130.9	7111.5	9072.5	11881.2	12925.9	12908.2	11943.2	12193.3	11334.5
60°	3928.7	3902.1	3999.5	4473.2	6343.4	9678.9	11763.9	12002.9	11564.7	11263.7	9623.6
62.5°	3233.7	3209.3	3178.4	3047.8	3643.2	6029.1	8127.4	8490.4	8432.8	7828.6	6035.8
65°	2647.2	2667.1	2753.4	2698.1	2534.3	3092.0	4218.6	4433.3	4052.6	3410.8	2109.3
67.5°	1952.2	1961.0	2073.9	2366.1	2277.5	2058.4	1985.4	2020.8	1184.1	544.5	351.9
70°	1153.1	1159.8	1263.8	1655.6	1848.1	1580.3	1341.3	1321.4	469.2	146.1	159.4
72.5°	652.9	639.7	659.6	787.9	1007.1	838.9	690.6	628.6	141.7	81.9	81.9
75°	309.9	301.0	259.0	243.5	221.3	141.7	88.5	75.3	35.4	33.2	33.2
77.5°	2.2	6.6	4.4	6.6	6.6	4.4	2.2	2.2	6.6	6.6	8.9
80°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P638363

CATALOG NUMBER: GWS-SA4E-760-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5	7921.5
2.5°	7870.6	7804.2	7788.7	7784.3	7722.3	7655.9	7587.3	7560.8	7520.9	7496.6	7516.5
5°	7722.3	7627.2	7543.1	7465.6	7328.4	7177.9	7047.3	6963.2	6883.5	6830.4	6843.6
7.5°	7512.1	7388.1	7195.6	6998.6	6746.2	6520.5	6268.2	6113.2	5969.4	5889.7	5927.3
10°	7288.5	7124.7	6817.1	6482.9	6086.7	5732.5	5371.8	5077.4	4907.0	4745.4	4763.1
12.5°	7069.4	6852.5	6392.1	5885.3	5385.0	4862.7	4318.2	3911.0	3632.1	3430.7	3399.7
15°	6865.8	6586.9	5978.2	5309.8	4628.1	3933.1	3238.1	2656.0	2332.9	2133.7	2120.4
17.5°	6684.3	6339.0	5548.8	4707.8	3853.4	2963.7	2164.6	1728.6	1542.7	1456.4	1447.5
20°	6509.4	6088.9	5110.6	4096.9	3007.9	2080.5	1494.0	1292.6	1232.8	1197.4	1201.8
22.5°	6341.2	5816.6	4650.2	3419.6	2255.4	1460.8	1157.6	1080.1	1073.5	1077.9	1080.1
25°	6199.6	5566.5	4176.6	2766.7	1609.1	1113.3	967.2	945.1	965.0	993.8	998.2
27.5°	6126.5	5362.9	3714.0	2109.3	1164.2	905.3	838.9	847.7	883.1	914.1	918.5
30°	6146.4	5210.2	3235.9	1529.4	896.4	763.6	741.5	759.2	794.6	823.4	827.8
32.5°	6288.1	5132.7	2746.8	1113.3	737.0	666.2	657.4	670.6	701.6	723.8	726.0
35°	6569.2	5150.4	2281.9	852.1	633.0	593.2	591.0	599.8	615.3	630.8	633.0
37.5°	6983.1	5294.3	1823.8	708.3	573.3	544.5	535.6	535.6	546.7	553.3	557.8
40°	7428.0	5511.2	1460.8	626.4	531.2	500.2	482.5	475.9	484.7	493.6	495.8
42.5°	7795.4	5728.1	1186.3	568.8	498.0	455.9	433.8	429.4	440.5	455.9	460.4
45°	8076.5	5896.3	989.4	522.3	460.4	413.9	389.5	389.5	409.5	436.0	440.5
47.5°	8333.2	6031.3	843.3	480.3	425.0	376.3	351.9	356.3	389.5	425.0	431.6
50°	8508.1	6139.8	734.8	442.7	396.2	345.3	323.1	332.0	371.8	413.9	420.5
52.5°	8696.2	6272.6	664.0	409.5	369.6	320.9	301.0	307.7	351.9	398.4	407.3
55°	9216.3	6717.5	661.8	365.2	323.1	287.7	278.9	281.1	325.4	378.5	389.5
57.5°	9641.3	7109.2	706.1	307.7	270.0	252.3	247.9	250.1	289.9	349.7	363.0
60°	7976.9	5524.5	584.3	254.5	225.8	221.3	214.7	219.1	256.7	309.9	320.9
62.5°	4721.0	3158.4	278.9	194.8	192.6	188.1	181.5	190.3	225.8	272.2	278.9
65°	1613.5	936.2	177.1	159.4	163.8	157.1	150.5	159.4	190.3	216.9	219.1
67.5°	309.9	247.9	141.7	132.8	135.0	121.7	119.5	128.4	146.1	150.5	148.3
70°	161.6	143.9	108.5	108.5	104.0	86.3	86.3	95.2	95.2	88.5	86.3
72.5°	84.1	79.7	70.8	79.7	66.4	53.1	53.1	57.5	53.1	44.3	44.3
75°	33.2	33.2	31.0	39.8	28.8	24.3	22.1	26.6	19.9	15.5	15.5
77.5°	8.9	8.9	8.9	11.1	6.6	6.6	4.4	4.4	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	0.0	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)