

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647574

Luminaire Tested: **GALN-SA7D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25658.1 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

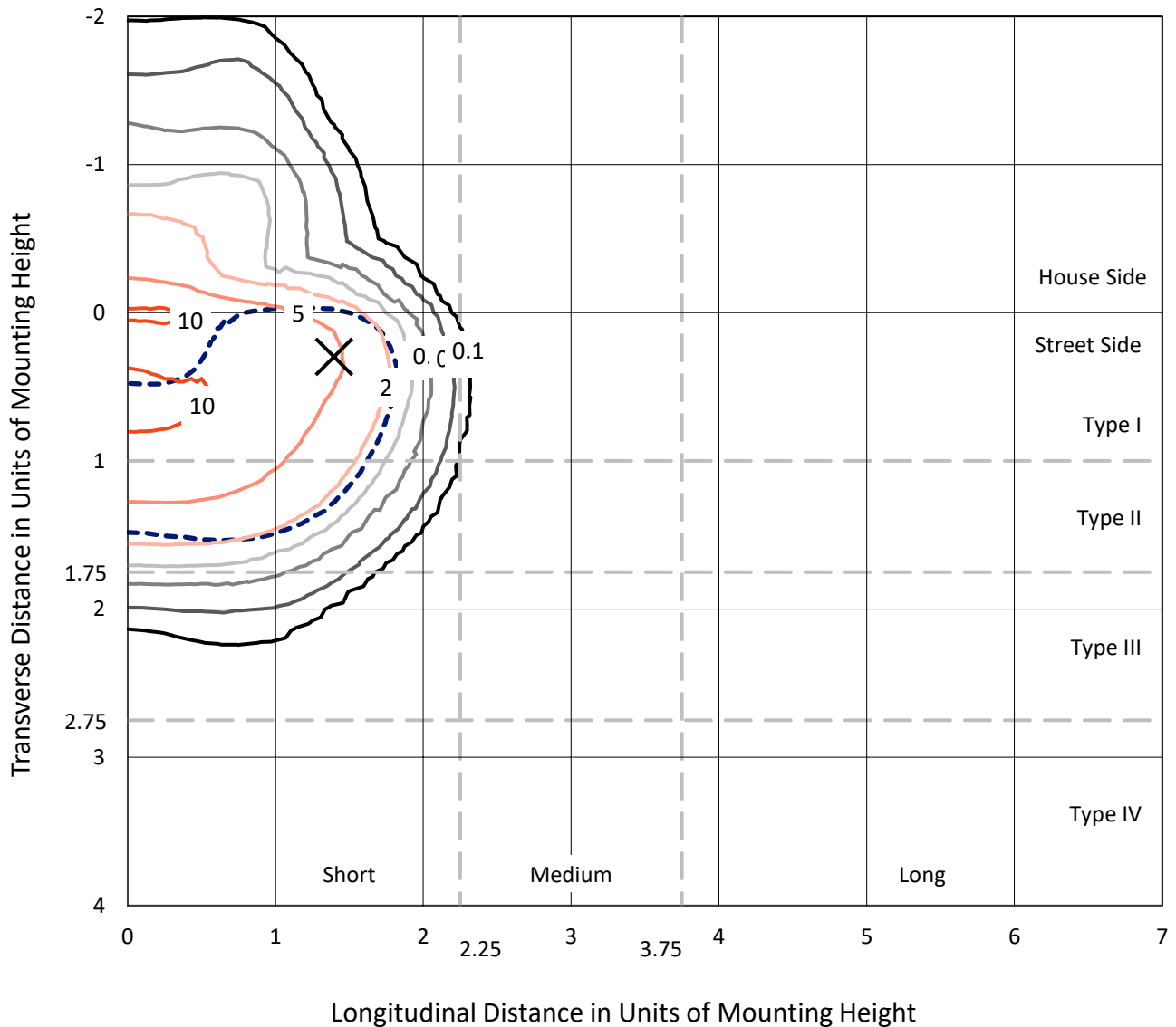
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647574
 CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

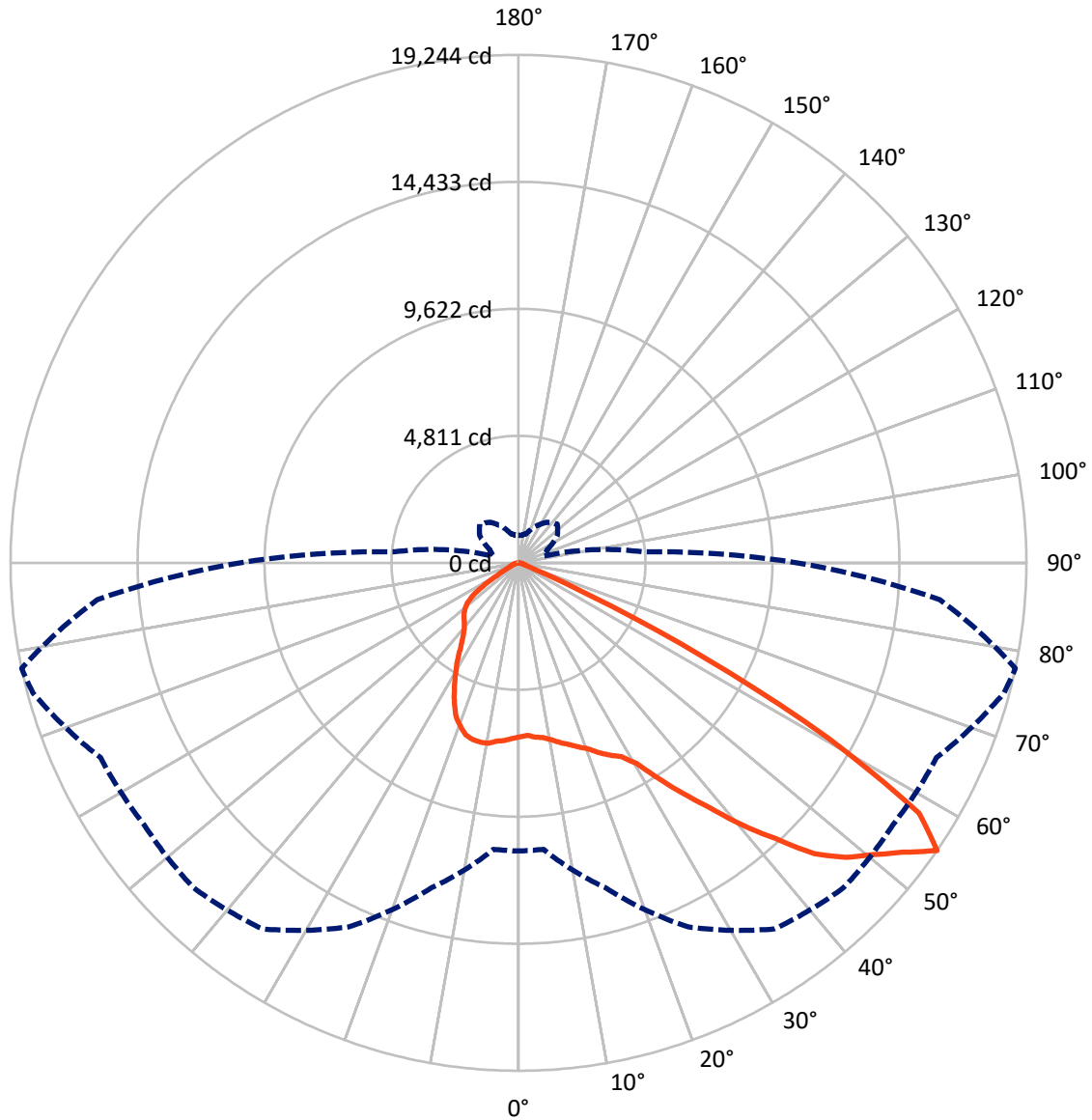
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P647574
CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P647574
 CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

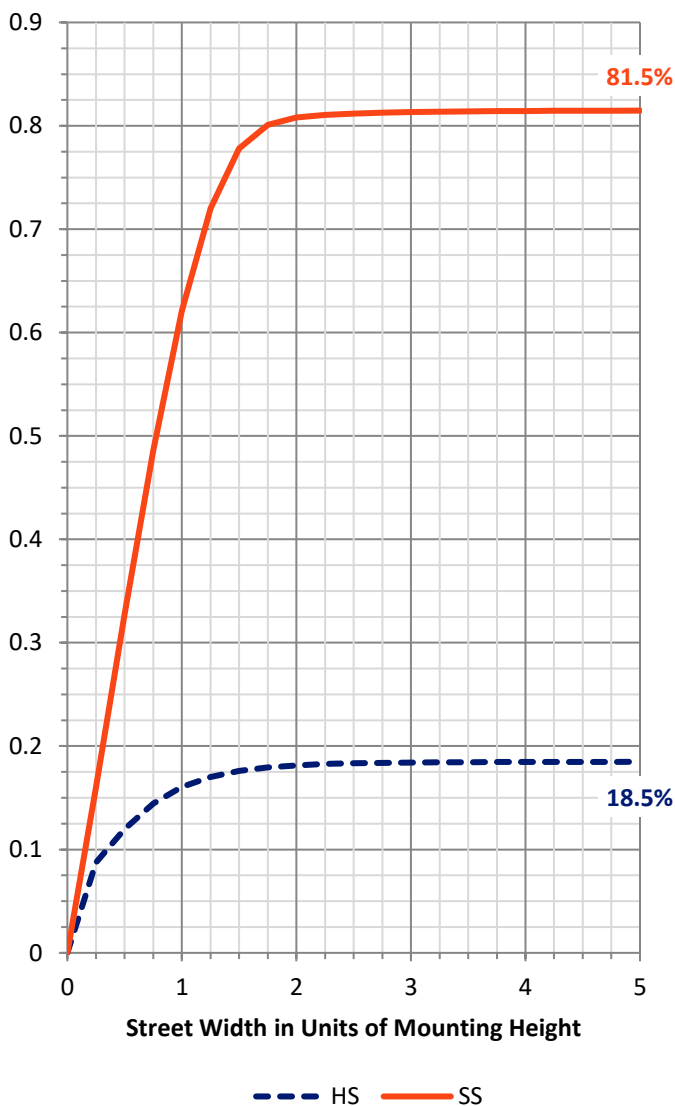
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4765.7	0.0	4765.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20892.4	0.0	20892.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	25658.1	0.0	25658.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	2.3
10°-20°	1556.7	6.1
20°-30°	2728.7	10.6
30°-40°	4499.2	17.5
40°-50°	6546.9	25.5
50°-60°	7418.4	28.9
60°-70°	2121.0	8.3
70°-80°	164.7	0.6
80°-90°	34.3	0.1
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°	25658.1	100.0
0°-180°	25658.1	100.0

Coefficient of Utilization



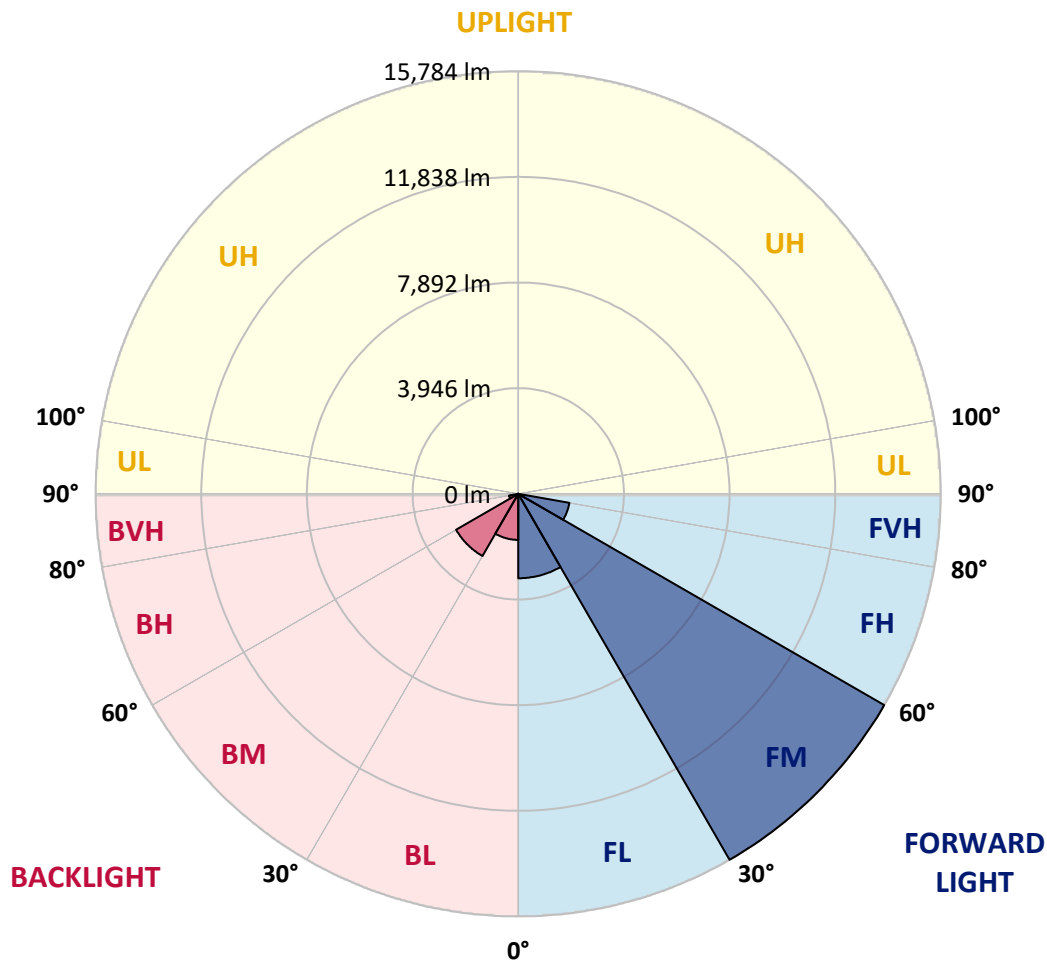
REPORT NUMBER: P647574
 CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.1	12.3			
FM (30°-60°)	15783.7	61.5			
FH (60°-80°)	1937.9	7.6			G2/5000
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1719.5	6.7	B3/2500		
BM (30°-60°)	2680.8	10.4	B3/5000		
BH (60°-80°)	347.9	1.4	B1/500		G1/500
BVH (80°-90°)	17.6	0.1			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





REPORT NUMBER: P647574

CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7
2.5°	6202.2	6261.8	6271.0	6344.4	6339.8	6463.7	6500.4	6505.0	6587.5	6546.3	6651.7
5°	6027.8	5995.7	5982.0	6110.5	6147.2	6257.3	6349.0	6404.1	6573.8	6633.4	6743.5
7.5°	5871.9	5871.9	5881.1	5995.7	5982.0	6124.2	6220.5	6390.3	6638.0	6688.5	6821.5
10°	5720.5	5665.5	5734.3	5853.6	5954.5	6018.7	6220.5	6381.1	6670.1	6817.0	7000.4
12.5°	5642.5	5670.1	5679.3	5766.4	5876.5	6069.2	6179.3	6445.3	6899.5	6986.6	7183.9
15°	6133.4	6078.4	5945.3	5867.3	5959.1	6050.8	6326.1	6596.7	7018.7	7142.6	7362.8
17.5°	6702.2	6656.4	6546.3	6335.3	6128.8	6298.5	6514.2	6761.8	7147.2	7330.7	7656.4
20°	7445.4	7372.0	7261.9	6849.1	6670.1	6486.6	6716.0	7009.6	7358.2	7523.4	7858.3
22.5°	8330.7	8330.7	8083.1	7583.0	7211.4	7037.1	7133.4	7303.2	7592.2	7817.0	8147.3
25°	9252.9	9225.3	9000.5	8482.2	7853.6	7647.2	7757.3	7876.6	7954.6	8078.4	8298.6
27.5°	10308.0	10147.4	9863.0	9289.5	8734.4	8335.3	8454.6	8349.1	8252.7	8317.0	8633.5
30°	11023.6	11124.5	10762.1	10211.6	9688.6	9243.6	9266.6	9174.9	8734.4	8826.2	9014.3
32.5°	11766.8	11831.0	11629.1	11326.3	10803.4	10285.0	10096.9	10019.0	9688.6	9729.9	9546.4
35°	12386.0	12509.9	12331.0	12198.0	12046.6	11629.1	11110.8	11363.1	10830.9	10730.0	10252.9
37.5°	12954.9	12918.2	13129.2	12991.6	12959.5	12665.9	12097.0	12147.5	11789.7	11766.8	11216.2
40°	13464.1	13473.2	13762.2	13826.5	13698.0	13175.1	12349.3	12748.5	13037.5	13065.0	12358.6
42.5°	13886.1	14010.0	14257.7	14776.1	14583.5	13711.8	12610.8	13046.7	14120.1	14289.8	13441.1
45°	14253.1	14505.5	14812.8	15276.1	15166.0	14473.4	13262.2	13661.4	15276.1	15721.1	14459.6
47.5°	14276.0	14606.4	14941.3	15629.4	15767.0	14881.6	13936.6	14633.9	16193.6	16675.3	15202.7
50°	14184.4	14358.7	15028.4	15776.2	16088.1	15546.8	14881.6	15450.5	17083.6	17386.4	15578.9
52.5°	13097.1	13230.1	14574.3	15913.8	16666.2	16299.2	16133.9	16588.2	17991.9	18216.7	15932.2
55°	10918.1	10895.1	12743.9	15221.1	16932.2	17413.8	17312.9	17473.5	19042.4	19244.3	16019.3
57.5°	7468.3	7885.7	9482.2	12675.0	15303.7	17152.4	17257.9	16991.8	17817.6	17895.5	13964.1
60°	4027.8	4202.0	5486.6	8459.2	11652.1	13977.9	14253.1	13771.5	13707.2	13487.0	9968.5
62.5°	1601.0	1688.1	2417.6	4188.3	6349.0	8495.9	9087.7	8890.4	8468.4	7890.4	5160.8
65°	761.5	816.6	1201.9	1958.8	2816.7	3541.5	4133.3	4316.8	3183.7	2867.1	1701.9
67.5°	518.3	559.7	876.2	1119.3	1004.7	1050.6	1367.0	1270.7	747.8	637.7	472.5
70°	394.6	422.0	701.9	761.5	449.6	316.6	353.2	330.3	307.3	311.9	307.3
72.5°	279.8	302.8	513.8	449.6	197.2	146.8	188.1	224.8	224.8	224.8	220.2
75°	169.8	192.7	298.2	174.3	78.0	78.0	119.3	151.4	160.6	165.1	156.0
77.5°	87.1	110.1	100.9	50.4	50.4	59.7	87.1	105.5	114.7	114.7	110.1
80°	18.3	18.3	18.3	27.6	50.4	64.2	87.1	96.3	110.1	110.1	100.9
82.5°	0.0	4.6	13.8	27.6	45.9	59.7	82.6	96.3	110.1	114.7	105.5
85°	0.0	4.6	9.2	18.3	32.1	36.7	32.1	27.6	27.6	27.6	27.6
87.5°	0.0	0.0	4.6	4.6	4.6	9.2	9.2	9.2	9.2	9.2	9.2
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: P647574

CATALOG NUMBER: GALN-SA7D-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7
2.5°	6661.0	6674.7	6651.7	6647.2	6628.8	6683.8	6550.8	6518.7	6601.3	6523.3	6541.7
5°	6748.1	6780.2	6739.0	6670.1	6569.2	6413.2	6280.2	6105.8	6023.3	5963.6	5954.5
7.5°	6812.3	6835.3	6794.0	6573.8	6271.0	5876.5	5582.9	5367.3	5197.6	5147.1	5064.5
10°	7073.8	7078.4	6872.0	6385.7	5793.9	5275.5	4825.9	4495.7	4325.9	4220.4	4174.6
12.5°	7248.2	7239.0	6821.5	6014.1	5225.1	4536.9	4023.2	3624.0	3468.1	3417.6	3385.5
15°	7468.3	7417.9	6702.2	5633.4	4491.1	3747.9	3284.6	3009.4	2995.6	2963.5	2995.6
17.5°	7642.6	7500.4	6527.9	4940.7	3789.3	3087.4	2784.6	2802.9	2839.6	2871.7	2876.4
20°	7927.1	7633.5	6128.8	4335.1	3137.8	2646.9	2642.4	2724.9	2816.7	2853.4	2890.1
22.5°	8142.7	7688.5	5702.2	3688.3	2605.7	2468.0	2546.0	2669.9	2738.7	2775.4	2830.5
25°	8220.6	7537.2	5133.3	3041.5	2348.8	2385.5	2504.7	2587.3	2674.5	2715.8	2692.8
27.5°	8298.6	7459.2	4454.4	2504.7	2211.1	2330.4	2431.4	2513.9	2541.5	2596.5	2633.2
30°	8486.7	7188.5	3844.3	2165.2	2142.4	2293.7	2367.1	2394.6	2468.0	2500.1	2500.1
32.5°	8638.1	7083.0	3197.5	2004.7	2133.1	2312.0	2321.2	2321.2	2330.4	2307.5	2298.3
35°	8950.1	6720.6	2619.4	1908.4	2128.6	2316.7	2339.6	2261.6	2050.6	1968.0	1945.1
37.5°	9335.4	6486.6	2192.8	1885.5	2160.7	2371.7	2408.4	2114.8	1839.6	1706.5	1683.6
40°	9803.3	6321.5	1912.9	1876.2	2234.1	2500.1	2390.0	2000.1	1642.3	1449.6	1440.5
42.5°	10349.2	6170.1	1724.9	1871.7	2325.8	2633.2	2371.7	1903.8	1440.5	1312.0	1330.3
45°	10785.0	6087.5	1596.5	1839.6	2357.9	2711.1	2385.5	1734.0	1357.9	1275.3	1284.5
47.5°	11124.5	5913.2	1490.9	1784.5	2353.4	2738.7	2261.6	1665.2	1316.6	1339.6	1362.5
50°	11133.7	5679.3	1357.9	1665.2	2284.6	2688.2	2119.4	1601.0	1307.5	1403.8	1449.6
52.5°	11009.8	5348.9	1215.7	1495.5	2124.0	2513.9	1990.9	1573.5	1266.1	1256.9	1312.0
55°	10569.4	4729.6	977.1	1211.1	1793.7	2073.5	1876.2	1523.0	1142.2	1036.8	1045.9
57.5°	8541.8	3390.1	720.2	867.0	1270.7	1518.5	1692.8	1500.1	1027.6	880.8	885.3
60°	5289.3	1922.1	527.6	591.8	784.5	922.1	1371.7	1394.6	917.5	743.1	734.0
62.5°	2715.8	949.6	408.3	417.4	481.7	541.3	940.5	1169.8	830.3	706.5	706.5
65°	908.3	467.9	357.8	321.1	321.1	334.9	568.8	812.0	701.9	591.8	591.8
67.5°	389.9	348.7	311.9	279.8	256.9	243.1	321.1	472.5	523.0	449.6	431.2
70°	302.8	293.6	270.7	234.0	201.9	183.5	188.1	243.1	298.2	289.0	279.8
72.5°	224.8	224.8	215.6	183.5	156.0	133.0	123.9	128.4	142.2	146.8	151.4
75°	156.0	160.6	160.6	142.2	114.7	96.3	82.6	68.8	55.0	45.9	41.3
77.5°	105.5	110.1	119.3	105.5	87.1	64.2	50.4	36.7	22.9	9.2	9.2
80°	91.8	105.5	114.7	105.5	91.8	68.8	50.4	27.6	13.8	0.0	0.0
82.5°	96.3	105.5	119.3	100.9	87.1	64.2	50.4	32.1	13.8	4.6	0.0
85°	22.9	22.9	27.6	32.1	41.3	45.9	36.7	22.9	13.8	4.6	0.0
87.5°	9.2	9.2	9.2	9.2	9.2	4.6	4.6	4.6	4.6	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)