

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: P531977

Luminaire Tested: **GALN-SA7B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23178 lumens  
Efficiency: N/A  
Efficacy: 81.0 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

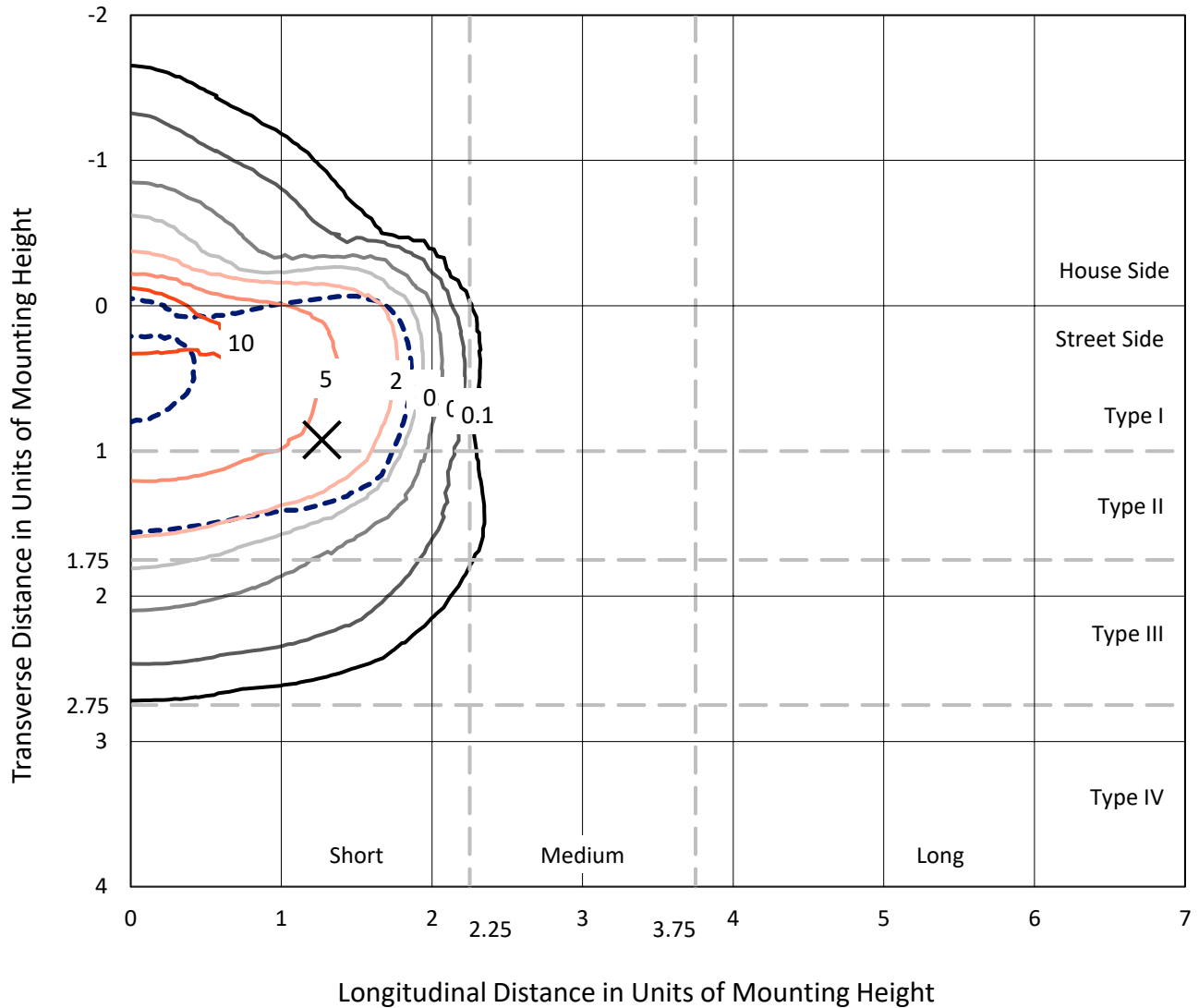
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531977  
 CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

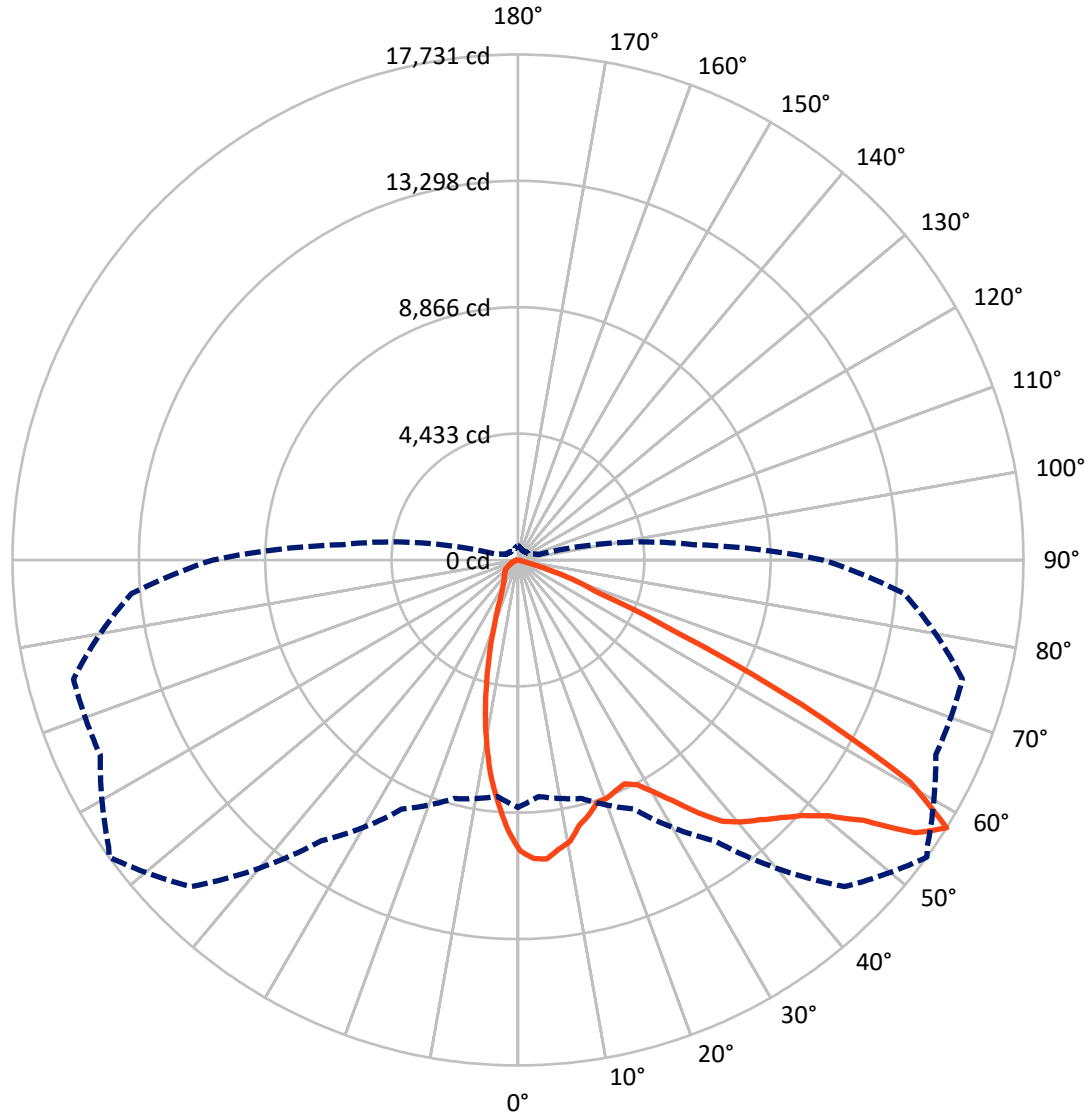
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P531977  
CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P531977  
 CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

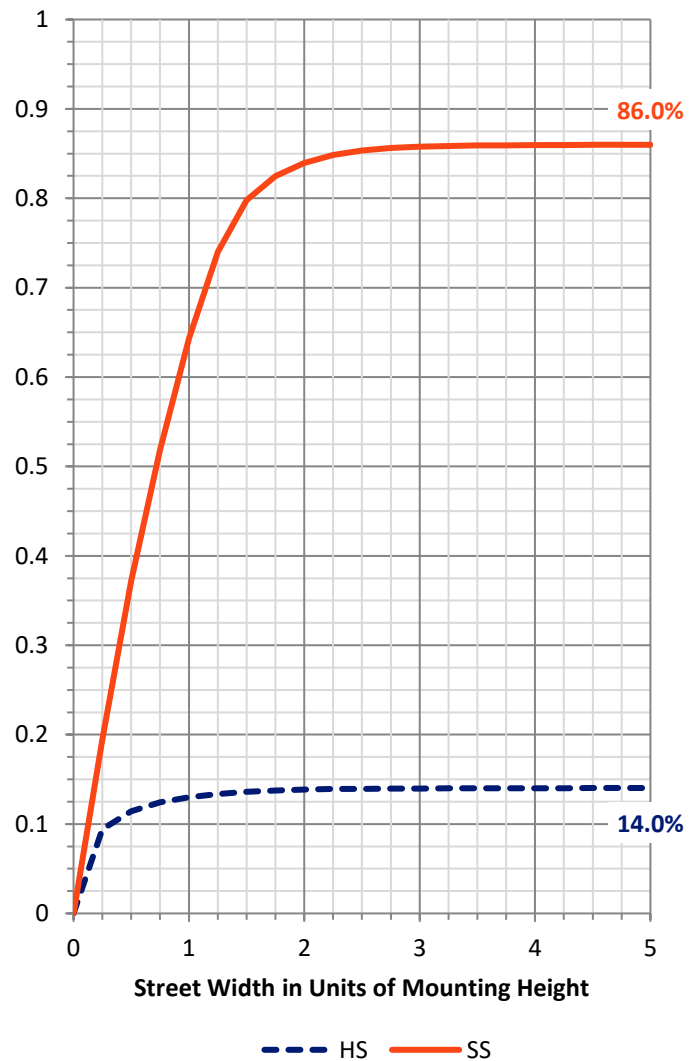
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3275.4	0.0	3275.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19902.6	0.0	19902.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	23178.0	0.0	23178.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.4	3.7
10°-20°	1824.2	7.9
20°-30°	2417.4	10.4
30°-40°	3513.1	15.2
40°-50°	5209.5	22.5
50°-60°	6514.2	28.1
60°-70°	2569.6	11.1
70°-80°	255.8	1.1
80°-90°	19.9	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°	23178.0	100.0
0°-180°	23178.0	100.0

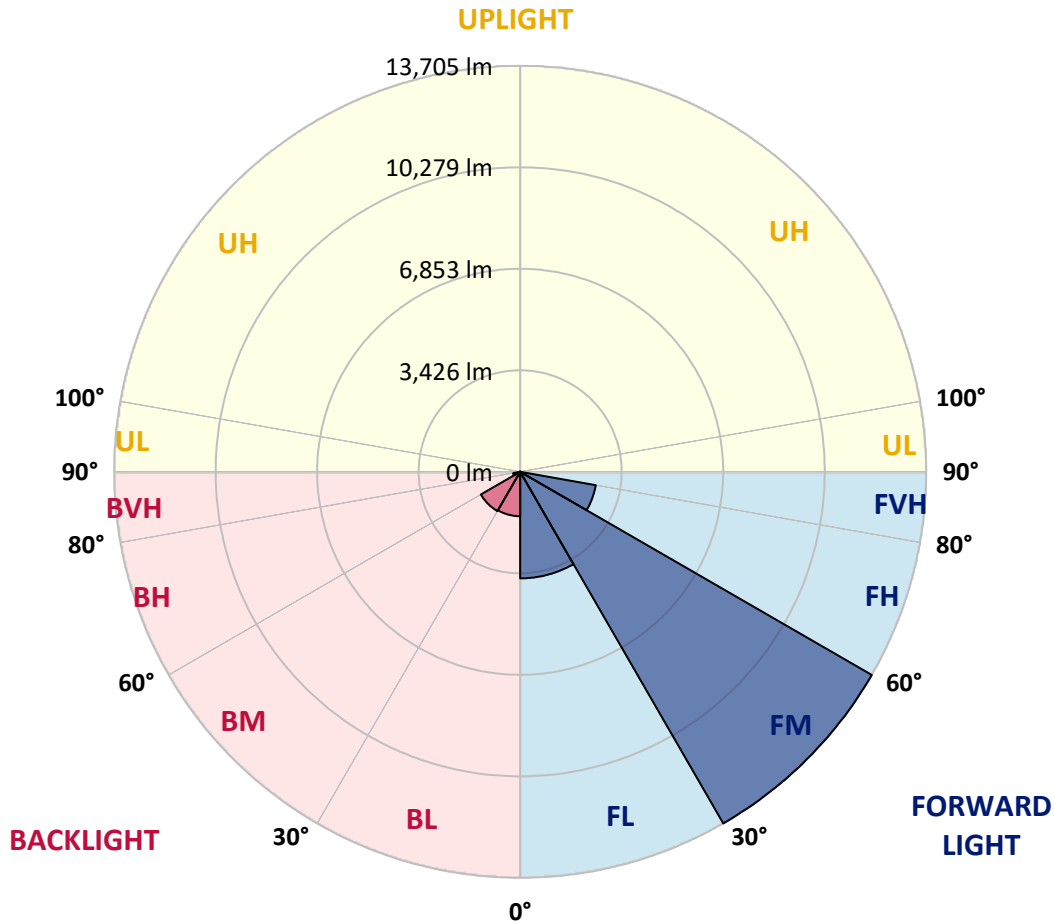


REPORT NUMBER: P531977  
 CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3597.9	15.5			
FM (30°-60°)	13705.1	59.1			
FH (60°-80°)	2590.5	11.2			G2/5000
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	1498.0	6.5	B3/2500		
BM (30°-60°)	1531.7	6.6	B2/2500		
BH (60°-80°)	234.9	1.0	B1/500		G1/500
BVH (80°-90°)	10.9	0.0			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: P531977

CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2
2.5°	10805.0	10692.9	10701.6	10662.8	10611.0	10649.8	10481.7	10520.5	10516.2	10287.8	10137.0
5°	10533.5	10654.1	10529.2	10632.6	10533.5	10641.2	10537.8	10460.2	10335.2	10167.1	9887.0
7.5°	10072.3	9955.9	9990.4	10119.7	10141.3	10382.6	10253.3	10352.4	10300.7	9968.9	9585.3
10°	9145.7	9119.8	9292.2	9464.6	9675.8	9934.4	10033.5	9977.5	9938.7	9813.7	9300.8
12.5°	8434.5	8507.8	8503.5	8787.9	9145.7	9292.2	9550.8	9542.2	9757.7	9524.9	9033.6
15°	7757.9	7796.7	7977.7	8154.4	8550.9	8969.0	9287.9	9331.0	9589.6	9425.8	8826.7
17.5°	7344.1	7288.1	7430.3	7641.5	8046.6	8594.0	8947.4	9050.9	9404.3	9369.8	8589.7
20°	6934.7	6934.7	7051.0	7301.0	7671.7	8288.0	8917.2	8887.1	9404.3	9305.1	8335.4
22.5°	6796.8	6865.7	6895.9	7085.5	7525.1	8055.3	8787.9	8844.0	9477.5	9275.0	8223.3
25°	6986.4	6895.9	6904.5	7055.4	7469.1	7943.2	8693.1	8818.1	9611.1	9425.8	8132.8
27.5°	7016.6	7107.1	7132.9	7236.4	7512.2	7977.7	8930.2	9184.5	9943.0	9779.2	8158.7
30°	7279.5	7370.0	7365.7	7542.4	7732.0	8257.8	9460.3	9512.0	10628.3	10223.2	8318.2
32.5°	7598.4	7693.2	7723.4	7930.3	8081.1	8770.7	10106.8	10240.4	11287.7	10921.4	8736.2
35°	7994.9	7960.4	8098.4	8305.2	8628.5	9520.6	10895.5	11119.6	11998.8	11826.4	9167.2
37.5°	8490.6	8447.5	8581.1	8917.2	9356.9	10408.5	11623.9	11770.4	12516.0	12666.9	9964.6
40°	8839.7	8856.9	9262.0	9714.6	10180.1	11253.2	12085.0	12227.3	12878.1	13451.3	10567.9
42.5°	9421.5	9529.3	10016.3	10567.9	11055.0	11886.8	12460.0	12597.9	13046.2	14080.5	11382.5
45°	10266.3	10218.8	10757.6	11373.9	11912.6	12546.2	12903.9	12856.5	13145.3	14705.5	11895.4
47.5°	11352.4	11361.0	11718.7	12244.5	12804.8	13119.4	13399.6	13231.5	13352.2	15364.9	12580.7
50°	12093.7	12158.3	12447.1	12985.8	13266.0	13748.7	14106.4	14003.0	13964.2	15761.4	13011.7
52.5°	12283.3	12477.2	12632.4	13304.7	13959.9	14722.7	15179.6	15399.4	14709.8	15895.0	13559.0
55°	10852.4	11024.8	11572.2	12494.5	14222.8	16265.7	16894.9	16899.2	15683.8	16489.8	13942.6
57.5°	8675.9	8326.8	8663.0	9641.3	12024.7	16201.0	17731.0	17528.5	16170.9	16140.7	13610.8
60°	5999.4	5913.2	5934.8	6322.7	8322.5	12886.7	15800.2	16063.1	14890.8	13990.0	10774.8
62.5°	4753.9	4680.6	4585.8	4542.7	5167.6	8029.4	11145.5	11516.1	10412.8	9072.4	6387.3
65°	3723.8	3680.7	3693.6	3866.0	3861.7	4555.6	6094.2	5943.4	4758.2	3516.9	2008.4
67.5°	2512.7	2577.3	2629.1	3150.6	3417.8	3172.1	2943.7	2857.5	1547.3	650.8	443.9
70°	1413.7	1422.3	1478.3	1969.6	2594.6	2461.0	2030.0	2030.0	771.5	237.0	254.3
72.5°	771.5	745.6	693.9	849.1	1155.1	1172.3	905.1	788.7	228.4	155.2	142.2
75°	375.0	370.7	318.9	262.9	250.0	206.9	159.5	146.5	103.4	99.1	86.2
77.5°	77.6	73.3	38.8	38.8	43.1	47.4	60.3	60.3	73.3	73.3	60.3
80°	0.0	0.0	4.3	17.2	30.2	43.1	51.7	51.7	60.3	60.3	47.4
82.5°	0.0	0.0	4.3	12.9	25.9	38.8	47.4	51.7	60.3	64.6	51.7
85°	0.0	0.0	0.0	8.6	21.5	30.2	25.9	25.9	21.5	17.2	8.6
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: P531977

CATALOG NUMBER: GALN-SA7B-740-U-SL3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2	10210.2
2.5°	10059.4	10050.8	9852.5	9740.4	9537.9	9361.2	9218.9	9115.5	9115.5	9050.9	8990.5
5°	9774.9	9701.6	9279.3	9007.8	8624.2	8339.7	8145.8	7994.9	7757.9	7822.5	7568.2
7.5°	9421.5	9236.2	8675.9	8262.1	7732.0	7326.9	6913.1	6546.8	6193.4	6033.9	6120.1
10°	9042.2	8719.0	7964.7	7309.6	6650.2	5908.9	5426.2	4840.0	4478.0	4456.5	4361.6
12.5°	8641.4	8275.1	7357.0	6452.0	5585.7	4693.5	3956.5	3409.2	3163.5	2892.0	2943.7
15°	8339.7	7796.7	6680.4	5590.0	4439.2	3538.5	2797.1	2374.8	2142.0	2077.4	2055.8
17.5°	8012.2	7430.3	5990.8	4672.0	3482.4	2547.2	2012.7	1810.2	1719.7	1719.7	1706.7
20°	7671.7	7016.6	5305.5	3818.6	2611.8	1900.7	1611.9	1547.3	1543.0	1538.6	1538.6
22.5°	7447.6	6542.5	4684.9	3034.2	1969.6	1521.4	1400.7	1374.9	1392.1	1443.8	1443.8
25°	7210.5	6085.6	3999.6	2340.3	1525.7	1305.9	1236.9	1254.2	1297.3	1344.7	1327.5
27.5°	6969.2	5788.2	3353.1	1836.0	1249.9	1142.1	1116.3	1155.1	1202.5	1245.6	1232.6
30°	6913.1	5469.3	2741.1	1392.1	1073.2	995.6	1012.8	1047.3	1094.7	1112.0	1129.2
32.5°	6999.3	5219.3	2245.5	1142.1	935.3	913.7	913.7	930.9	961.1	999.9	987.0
35°	7245.0	5077.1	1775.7	991.3	857.7	836.1	831.8	849.1	866.3	879.2	866.3
37.5°	7620.0	4965.0	1452.4	879.2	806.0	771.5	762.9	758.5	775.8	780.1	788.7
40°	8098.4	5025.4	1232.6	810.3	754.2	715.4	689.6	689.6	689.6	702.5	706.8
42.5°	8615.5	5107.3	1064.6	771.5	706.8	659.4	633.6	624.9	633.6	650.8	646.5
45°	9158.6	5266.7	956.8	711.1	663.7	603.4	568.9	560.3	581.8	616.3	612.0
47.5°	9667.2	5495.2	874.9	672.3	620.6	564.6	521.5	512.9	551.7	599.1	603.4
50°	10175.7	5891.7	844.7	642.2	590.5	525.8	487.0	478.4	521.5	581.8	594.8
52.5°	10761.9	6318.4	823.2	603.4	556.0	495.6	452.5	443.9	491.3	568.9	573.2
55°	11145.5	6680.4	806.0	534.4	491.3	448.2	413.8	409.4	461.2	530.1	547.4
57.5°	10697.2	6176.1	745.6	465.5	418.1	396.5	366.3	366.3	409.4	474.1	487.0
60°	8111.3	4064.3	530.1	375.0	353.4	340.5	327.6	327.6	362.0	409.4	413.8
62.5°	4749.5	2189.4	340.5	301.7	301.7	288.8	267.2	267.2	301.7	327.6	331.9
65°	1409.3	702.5	275.8	258.6	254.3	232.7	211.2	206.9	232.7	245.7	241.4
67.5°	405.1	323.2	228.4	215.5	211.2	176.7	163.8	159.5	163.8	155.2	150.8
70°	241.4	219.8	176.7	181.0	159.5	129.3	116.4	112.1	103.4	90.5	81.9
72.5°	133.6	133.6	129.3	137.9	112.1	86.2	73.3	60.3	47.4	38.8	34.5
75°	81.9	86.2	90.5	94.8	73.3	56.0	47.4	30.2	17.2	8.6	8.6
77.5°	56.0	60.3	64.6	69.0	60.3	51.7	38.8	21.5	4.3	0.0	0.0
80°	43.1	47.4	56.0	60.3	64.6	69.0	51.7	21.5	4.3	0.0	0.0
82.5°	47.4	51.7	64.6	60.3	60.3	60.3	47.4	21.5	4.3	0.0	0.0
85°	8.6	12.9	21.5	21.5	30.2	38.8	30.2	8.6	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)