

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: P456493

Luminaire Tested: **GALN-SA7D-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40364 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

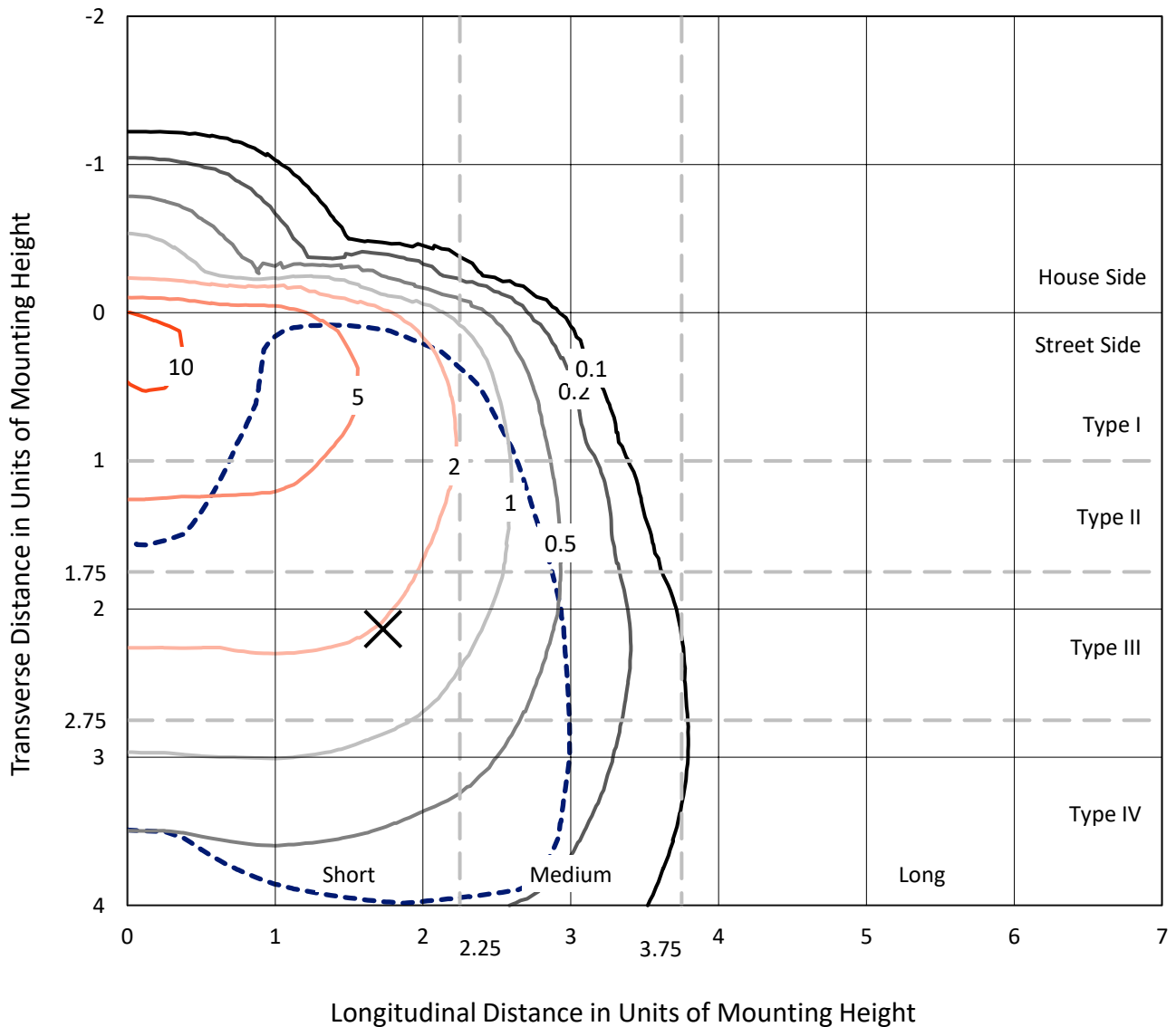
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

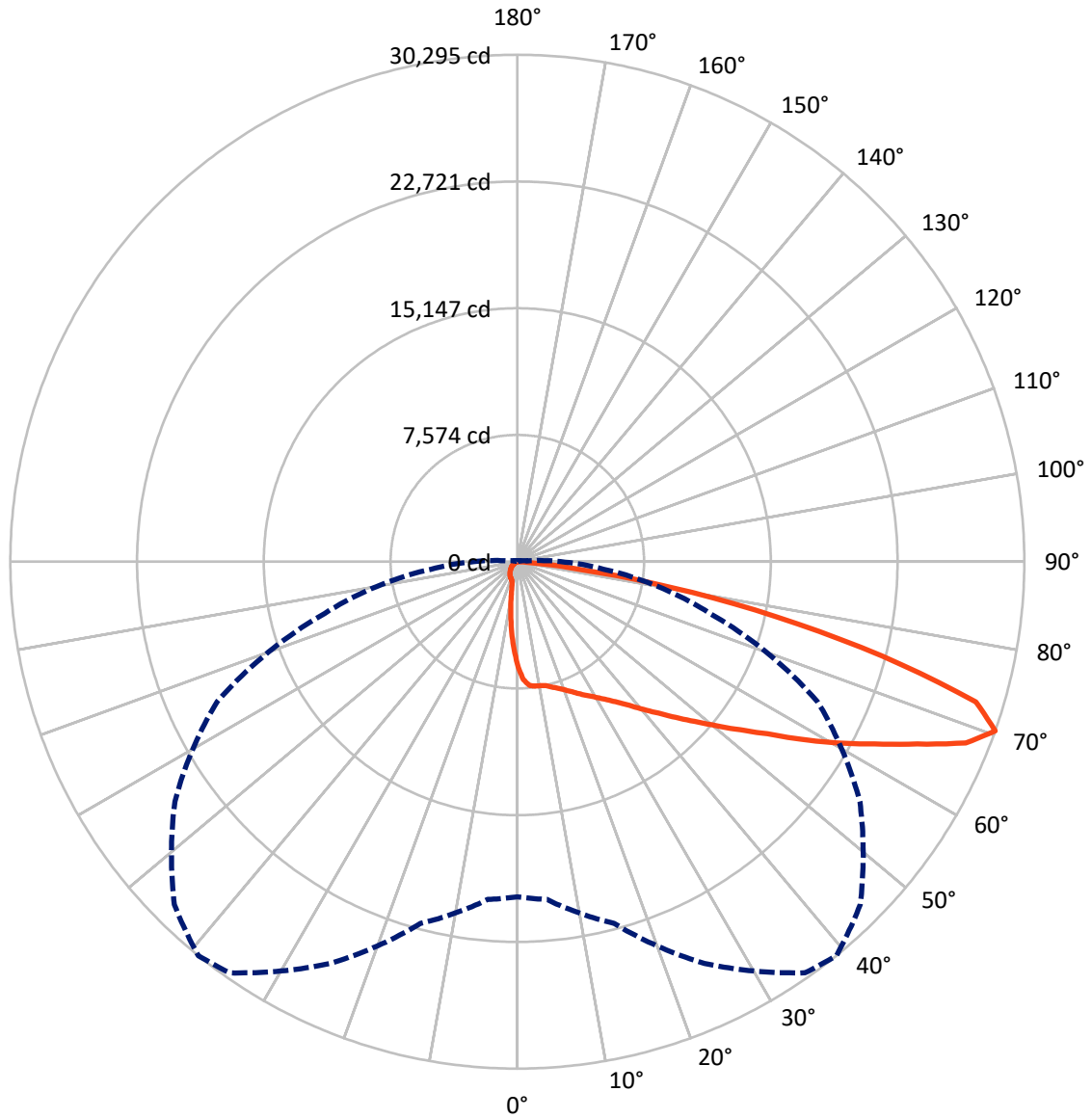
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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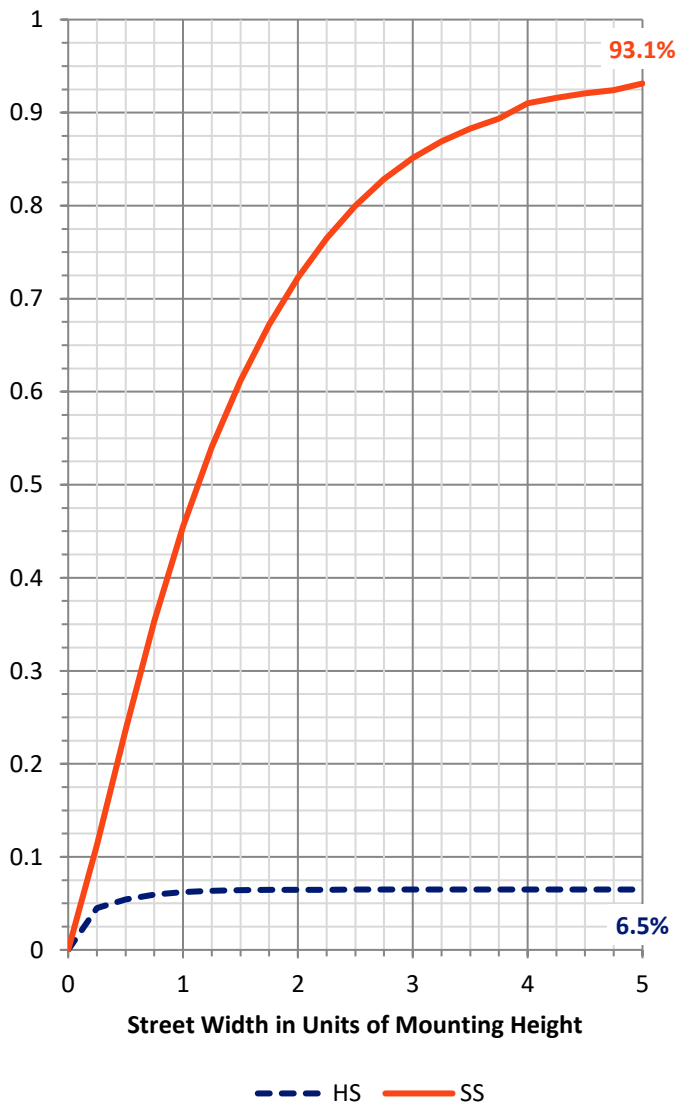
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.9	0.0	2631.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	37732.1	0.0	37732.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	40364.0	0.0	40364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.2	1.3
10°-20°	1396.0	3.5
20°-30°	2338.7	5.8
30°-40°	3627.0	9.0
40°-50°	5747.7	14.2
50°-60°	8425.3	20.9
60°-70°	10799.2	26.8
70°-80°	6785.9	16.8
80°-90°	706.9	1.8
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°	40364.0	100.0
0°-180°	40364.0	100.0

Coefficient of Utilization

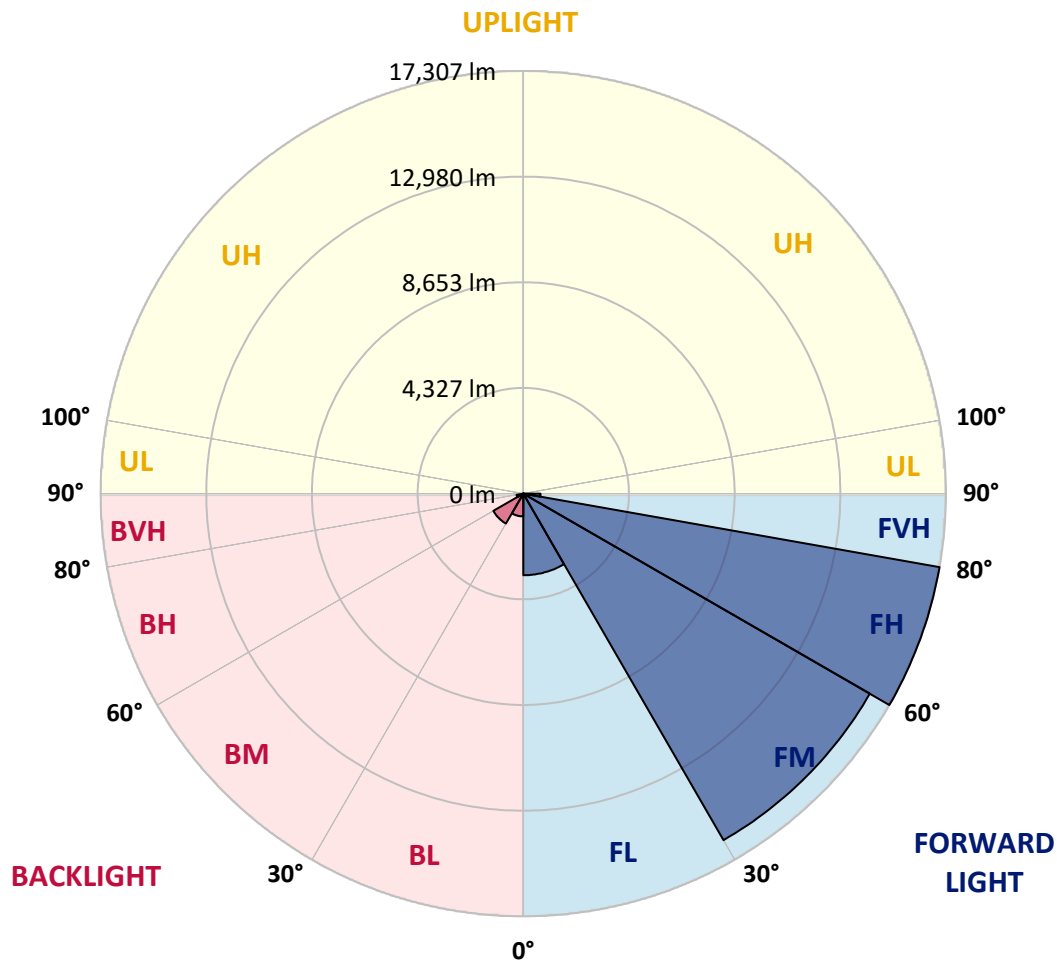


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3339.9	8.3			
FM (30°-60°)	16383.7	40.6			
FH (60°-80°)	17306.8	42.9			G5
FVH (80°-90°)	701.7	1.7			G4/750
BL (0°-30°)	931.9	2.3	B2/1000		
BM (30°-60°)	1416.4	3.5	B2/2500		
BH (60°-80°)	278.3	0.7	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2
2.5°	7277.3	7252.9	7220.4	7182.4	7073.9	7054.9	6989.8	6851.5	6686.0	6550.4	6363.3
5°	7621.8	7635.4	7611.0	7543.2	7464.5	7418.4	7337.0	7122.7	6908.5	6634.5	6328.0
7.5°	7700.5	7727.6	7697.8	7632.7	7556.7	7507.9	7442.8	7258.4	7008.8	6696.9	6276.5
10°	7692.3	7724.9	7705.9	7646.2	7583.8	7537.7	7467.2	7320.7	7120.0	6791.8	6292.7
12.5°	7678.8	7722.2	7719.5	7689.6	7638.1	7602.8	7559.4	7429.2	7242.1	6930.2	6382.3
15°	7640.8	7695.0	7743.9	7768.3	7771.0	7771.0	7716.7	7578.4	7399.4	7111.9	6498.9
17.5°	7657.1	7719.5	7841.5	7912.0	7960.9	7955.4	7898.5	7749.3	7551.3	7299.0	6620.9
20°	7757.4	7841.5	8012.4	8153.4	8202.3	8186.0	8110.0	7936.5	7711.3	7459.1	6740.3
22.5°	8004.3	8080.2	8294.5	8459.9	8495.2	8451.8	8343.3	8107.3	7903.9	7632.7	6884.0
25°	8373.1	8462.7	8660.7	8785.4	8785.4	8761.0	8609.1	8332.5	8120.9	7874.1	7071.2
27.5°	8820.7	8896.6	9091.9	9203.1	9138.0	9067.5	8915.6	8582.0	8378.6	8177.9	7296.3
30°	9273.7	9322.5	9528.6	9577.4	9509.6	9420.1	9257.4	8923.8	8744.7	8590.1	7621.8
32.5°	9702.2	9808.0	9978.9	9968.0	9875.8	9832.4	9683.2	9327.9	9227.5	9211.3	8077.5
35°	10130.8	10212.1	10364.0	10402.0	10320.6	10312.5	10204.0	9940.9	9943.6	10049.4	8788.1
37.5°	10499.7	10572.9	10751.9	10836.0	10852.3	10893.0	10849.6	10676.0	10922.8	11213.0	9729.3
40°	10808.9	10911.9	11139.8	11286.3	11454.4	11603.6	11611.7	11649.7	12146.1	12645.2	10958.1
42.5°	11050.3	11194.0	11524.9	11796.2	12181.3	12371.2	12523.1	12732.0	13567.4	14313.3	12406.5
45°	11364.9	11530.4	11942.7	12368.5	12970.6	13282.6	13494.1	14052.9	15238.2	16255.4	13892.9
47.5°	11885.7	11972.5	12392.9	13014.0	13806.1	14250.9	14663.2	15509.4	17031.1	17942.5	15129.7
50°	12555.7	12612.6	12930.0	13792.5	14817.8	15403.7	16155.0	17150.4	18891.8	19342.0	15829.5
52.5°	13296.1	13315.1	13553.8	14649.6	15951.6	16689.3	17530.2	18758.9	20408.0	20340.2	16293.3
55°	14156.0	14128.8	14332.3	15580.0	17294.2	18137.7	19116.9	20405.3	21723.5	21048.1	16559.1
57.5°	15140.6	15067.3	15265.3	16814.1	19013.9	20022.9	21018.3	21826.6	22743.4	21642.2	16686.6
60°	16171.3	16024.8	16260.8	18200.1	21040.0	21997.5	22824.8	23041.7	23817.5	22114.1	16466.9
62.5°	16993.1	16995.8	17435.2	19675.7	23123.1	23961.2	24400.7	24595.9	24742.4	22011.0	15311.4
65°	18276.1	18319.5	19022.0	21723.5	25534.4	26261.4	26562.4	25927.7	24783.1	20730.8	13575.5
67.5°	19599.7	19738.1	21023.7	24544.4	28320.1	28905.9	28518.1	26185.4	23676.4	17809.5	10293.5
70°	20031.0	20258.8	22377.2	26486.5	29990.9	30294.7	28981.9	24983.8	19792.3	11907.4	5180.7
72.5°	18354.7	18723.6	21598.8	25778.6	28924.9	28661.8	25930.4	20953.2	12582.8	4521.6	1581.3
75°	12943.5	13106.3	17950.6	21384.5	23264.2	22518.3	19724.5	13507.7	5175.2	1269.4	542.5
77.5°	6683.3	6604.7	10676.0	14188.5	16591.7	15818.7	12916.4	6992.5	1961.1	528.9	336.3
80°	3455.6	3512.5	4619.2	7434.7	10128.1	9319.8	6886.8	3241.3	1044.3	292.9	257.7
82.5°	1936.6	1817.3	2655.4	3246.7	4735.8	3713.3	2641.9	2294.7	455.7	176.3	244.1
85°	352.6	368.9	1456.6	1754.9	1643.7	1044.3	851.7	1532.5	132.9	97.6	170.9
87.5°	5.4	5.4	282.1	504.5	320.1	146.5	268.5	219.7	27.1	38.0	29.8
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°	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2	6298.2
2.5°	6268.3	6165.3	5972.7	5782.8	5541.4	5343.4	5210.5	5072.2	4931.1	4942.0	4974.5
5°	6159.8	5980.8	5601.1	5199.7	4814.5	4467.3	4125.5	3819.0	3694.3	3580.4	3585.8
7.5°	6051.3	5799.1	5243.0	4613.8	4030.6	3439.3	3010.8	2658.1	2471.0	2329.9	2289.3
10°	6002.5	5668.9	4914.8	4049.6	3222.3	2576.8	2026.2	1738.6	1516.2	1445.7	1464.7
12.5°	6024.2	5603.8	4619.2	3539.7	2555.1	1795.6	1410.4	1264.0	1215.2	1207.0	1201.6
15°	6064.9	5557.7	4329.0	2975.5	1877.0	1334.5	1185.3	1158.2	1152.8	1147.3	1150.1
17.5°	6119.2	5517.0	4019.8	2446.6	1440.3	1166.3	1122.9	1109.4	1106.7	1106.7	1106.7
20°	6173.4	5470.9	3675.3	1974.6	1201.6	1101.2	1074.1	1066.0	1063.3	1063.3	1060.5
22.5°	6235.8	5430.2	3325.4	1551.5	1106.7	1055.1	1030.7	1025.3	1022.6	1019.9	1019.9
25°	6325.3	5378.7	2953.8	1269.4	1047.0	1011.7	987.3	981.9	979.2	968.3	971.0
27.5°	6444.6	5340.7	2571.3	1095.8	992.7	957.5	941.2	933.1	927.6	919.5	922.2
30°	6607.4	5308.1	2164.5	1000.9	930.3	900.5	884.2	878.8	873.4	865.3	865.3
32.5°	6889.5	5321.7	1735.9	924.9	873.4	838.1	821.9	816.4	811.0	802.9	802.9
35°	7312.6	5400.4	1388.7	859.8	805.6	770.3	754.0	754.0	745.9	735.1	732.3
37.5°	8004.3	5601.1	1114.8	797.4	740.5	707.9	688.9	683.5	675.4	659.1	656.4
40°	8820.7	5913.0	938.5	735.1	680.8	648.3	632.0	615.7	594.0	577.7	575.0
42.5°	9846.0	6233.1	813.7	672.7	623.8	594.0	575.0	547.9	515.4	493.7	490.9
45°	10914.7	6526.0	729.6	615.7	569.6	545.2	523.5	480.1	439.4	412.3	409.6
47.5°	11712.1	6580.3	661.8	561.5	523.5	499.1	469.2	415.0	360.7	336.3	328.2
50°	12089.1	6317.2	591.3	507.2	477.4	450.3	412.3	349.9	290.2	260.4	255.0
52.5°	12222.0	5861.5	534.3	458.4	431.3	398.7	352.6	282.1	227.8	198.0	195.3
55°	12167.8	5286.4	482.8	412.3	377.0	339.0	292.9	225.1	168.2	143.8	138.3
57.5°	11883.0	4554.1	431.3	366.2	322.8	284.8	233.3	168.2	113.9	92.2	89.5
60°	11115.4	3555.9	379.7	314.6	274.0	233.3	184.4	119.3	70.5	51.5	51.5
62.5°	9818.9	2639.2	330.9	263.1	230.6	187.2	130.2	75.9	38.0	27.1	24.4
65°	8205.0	1947.5	276.7	222.4	192.6	146.5	92.2	46.1	19.0	8.1	5.4
67.5°	5725.9	1201.6	230.6	181.7	157.3	105.8	57.0	19.0	8.1	0.0	0.0
70°	2601.2	572.3	176.3	138.3	119.3	75.9	29.8	10.8	5.4	0.0	0.0
72.5°	808.3	301.1	124.8	100.4	81.4	48.8	16.3	8.1	5.4	0.0	0.0
75°	374.3	192.6	78.7	54.2	46.1	24.4	10.8	5.4	2.7	0.0	0.0
77.5°	279.4	149.2	46.1	29.8	24.4	16.3	8.1	5.4	2.7	0.0	0.0
80°	244.1	75.9	27.1	19.0	13.6	10.8	5.4	2.7	0.0	0.0	0.0
82.5°	219.7	38.0	16.3	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
85°	119.3	21.7	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	21.7	10.8	8.1	5.4	5.4	2.7	2.7	2.7	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)