

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: P457414

Luminaire Tested: **GALN-SA8D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46611 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

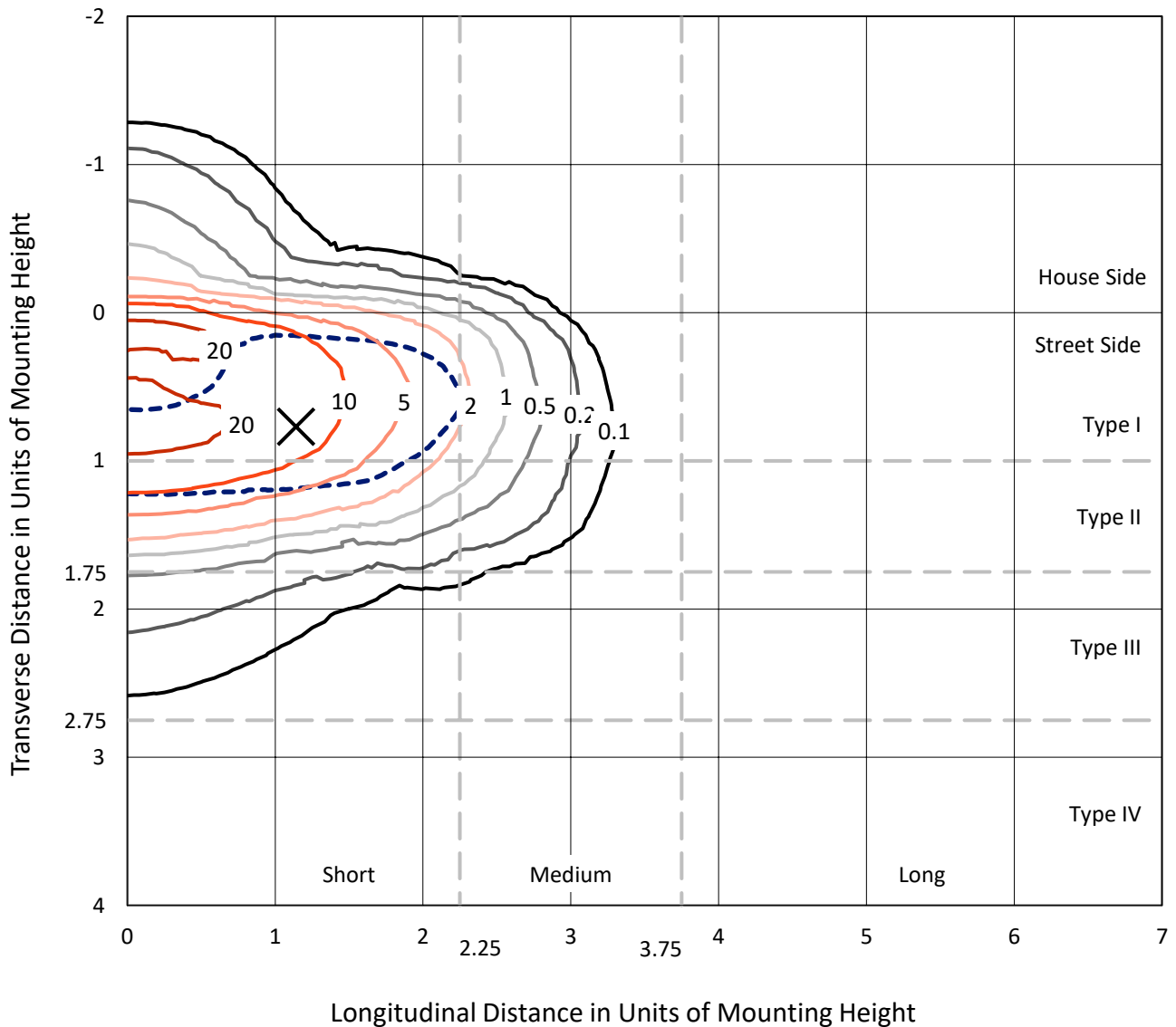
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

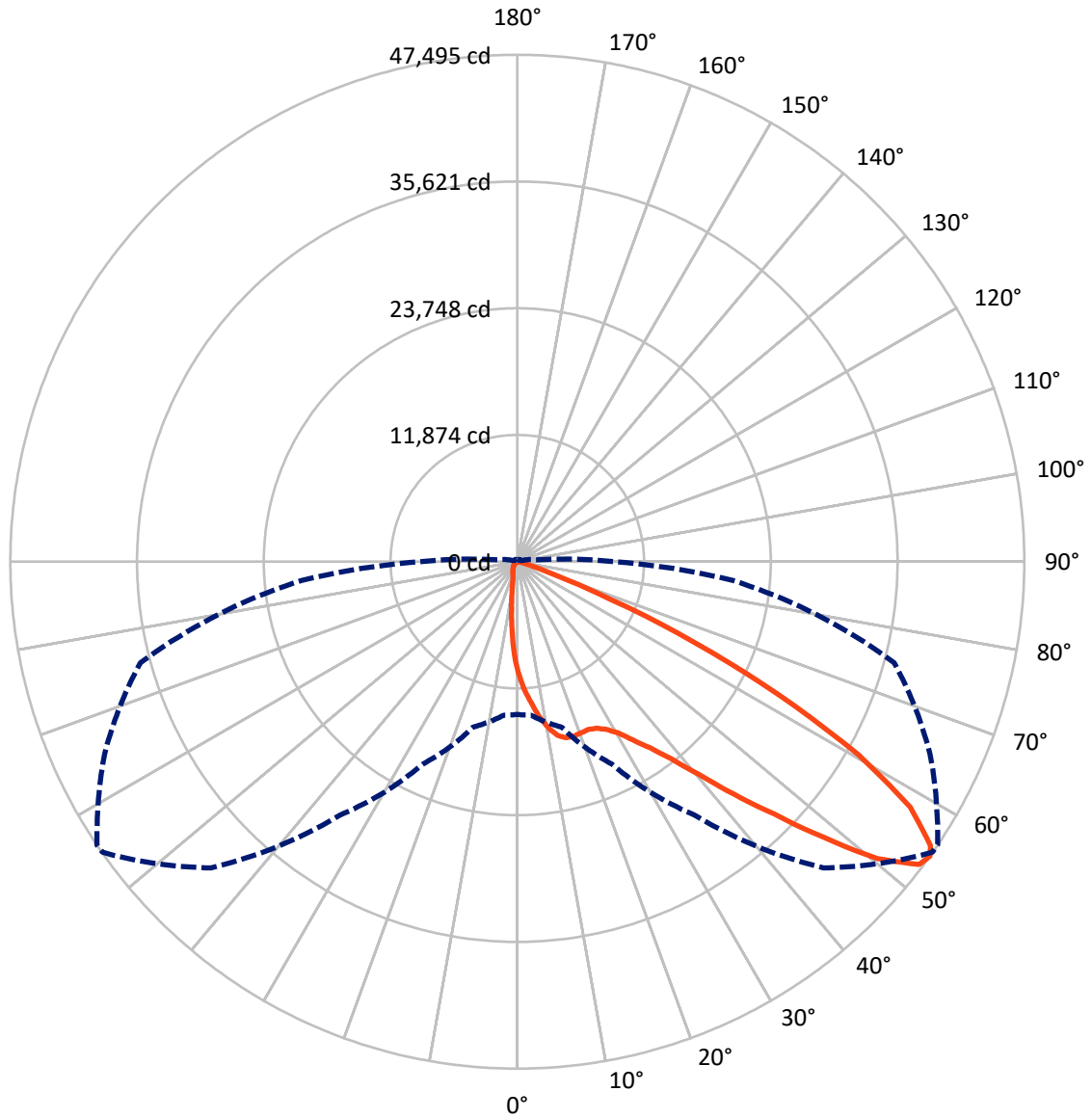
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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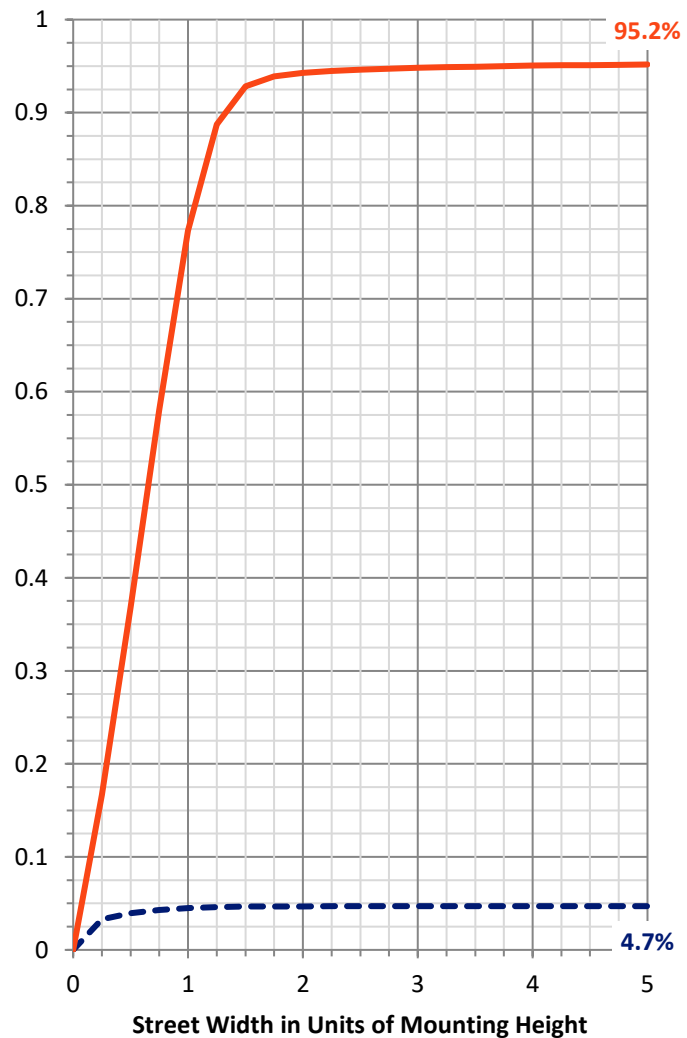
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.1	0.0	2204.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	44406.9	0.0	44406.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	46611.0	0.0	46611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.1	2.0
10°-20°	2473.8	5.3
20°-30°	4284.4	9.2
30°-40°	7395.5	15.9
40°-50°	12587.4	27.0
50°-60°	12456.8	26.7
60°-70°	5685.6	12.2
70°-80°	730.2	1.6
80°-90°	82.3	0.2
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°	46611.0	100.0
0°-180°	46611.0	100.0



--- HS — SS

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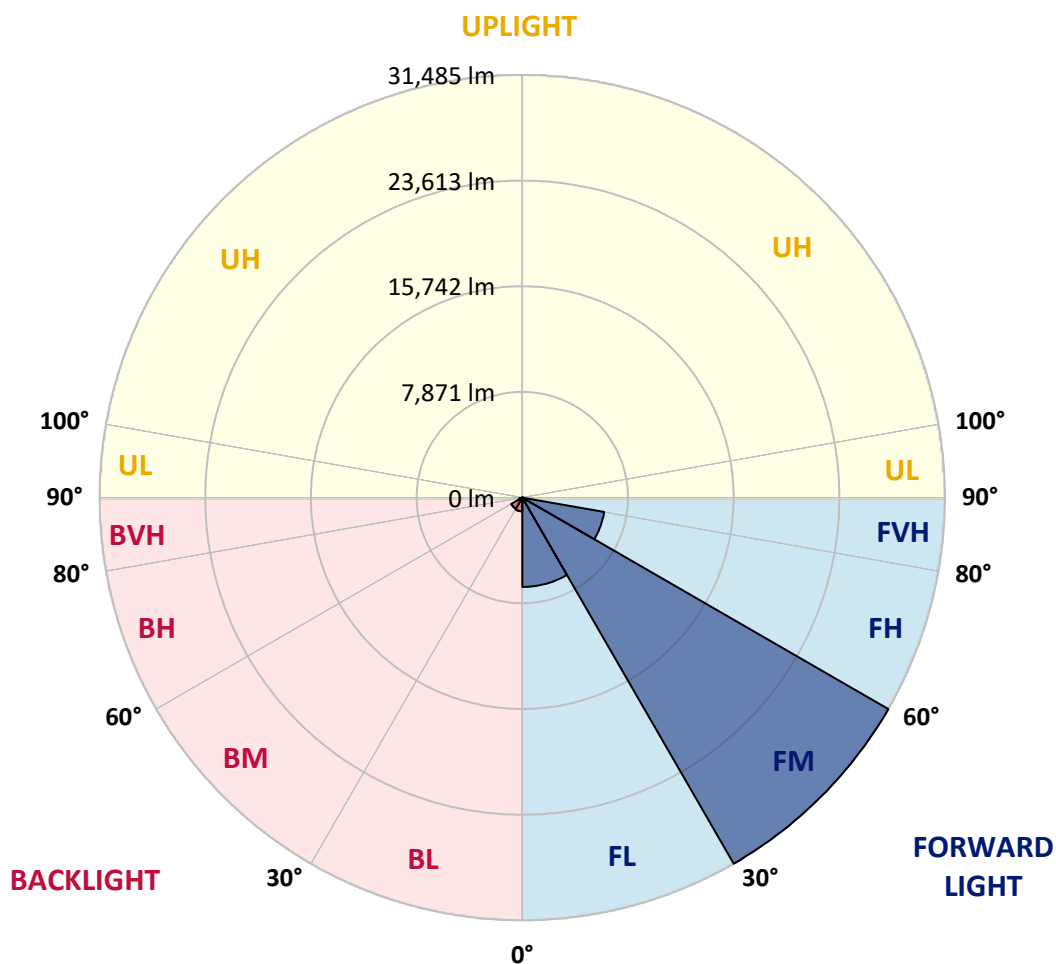
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6653.9	14.3			
FM (30°-60°)	31484.5	67.5			
FH (60°-80°)	6195.0	13.3			G3/7500
FVH (80°-90°)	73.5	0.2			G1/100
BL (0°-30°)	1019.4	2.2	B3/2500		
BM (30°-60°)	955.2	2.0	B1/1000		
BH (60°-80°)	220.7	0.5	B1/500		G1/500
BVH (80°-90°)	8.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6
2.5°	13160.7	13069.5	12943.7	12846.3	12616.7	12286.5	11937.4	11937.4	11600.9	11132.4	10654.4
5°	15179.7	15119.9	14997.3	14745.7	14487.8	14025.5	13324.3	13201.6	12601.0	11751.9	10858.8
7.5°	16000.4	16028.7	16035.0	15969.0	15846.3	15390.4	14695.4	14610.5	13651.3	12512.9	11126.1
10°	15214.2	15352.6	15487.8	15761.4	16148.2	16258.3	15865.2	15777.2	14833.7	13283.4	11415.4
12.5°	14044.4	14119.9	14195.4	14626.2	15402.9	16292.9	16704.9	16701.7	15902.9	14050.7	11783.3
15°	13500.4	13566.4	13572.7	13764.5	14437.5	15733.1	17063.4	17110.5	16947.0	14997.3	12179.6
17.5°	13613.6	13667.0	13623.0	13670.2	14022.4	15116.8	17022.5	17179.7	17792.9	15906.1	12538.1
20°	14352.6	14456.4	14286.5	14154.5	14261.4	14953.2	16884.1	17104.2	18390.4	16792.9	12865.1
22.5°	15679.7	15736.3	15522.4	15160.8	14972.1	15296.0	16846.4	17063.4	18899.9	17519.3	13053.8
25°	17154.5	17135.7	16899.8	16494.2	16097.9	15987.9	17094.8	17289.8	19321.3	18173.4	13110.4
27.5°	18629.4	18686.0	18289.8	17786.6	17311.8	17025.6	17651.4	17796.1	19796.1	18918.7	13179.6
30°	20343.3	20252.1	19862.2	19286.7	18742.6	18343.3	18547.7	18588.6	20450.2	19906.2	13362.0
32.5°	22572.9	22321.4	21884.2	20877.9	20488.0	19811.9	19862.2	19912.5	21245.9	20884.2	13582.1
35°	25598.2	25585.6	24730.2	23374.8	22425.1	21585.5	21365.4	21406.2	22450.3	22337.1	14069.6
37.5°	29239.8	29290.1	28315.2	26950.4	25201.9	23868.6	23415.7	23422.0	24280.5	24343.4	14811.7
40°	32205.3	32337.3	31755.6	30834.2	29107.7	27022.7	26261.7	26192.5	26852.9	26774.3	15871.5
42.5°	33482.0	33604.7	33821.7	34142.4	33192.7	31472.5	29676.9	29771.2	29972.5	29422.2	17060.2
45°	32856.2	33051.2	33903.4	35884.6	36777.7	36199.1	34057.5	33727.3	32875.1	32299.6	18255.2
47.5°	30249.2	30724.1	32148.7	35447.5	38573.4	40529.4	39001.0	38563.9	35780.8	34400.3	19016.2
50°	25963.0	25991.3	27975.6	32192.7	37642.5	43262.2	44048.4	43721.3	38488.5	35579.6	19399.9
52.5°	18821.3	19440.8	21258.4	26142.2	33611.0	42847.1	47265.4	47130.2	41281.0	36183.4	19953.4
54°	14308.6	14428.1	16044.5	20890.5	28978.8	40567.1	47463.5	47495.0	42667.8	36548.2	20280.4
55°	11729.9	11443.7	13141.9	17796.1	25818.3	38551.4	46815.7	46966.7	43290.5	36736.8	20522.6
57.5°	5559.9	5563.0	6861.8	9387.0	16170.2	29934.8	42856.5	43391.1	43359.7	37060.7	21267.9
60°	2814.5	2833.4	3119.6	4333.4	7987.6	19899.9	35434.9	36708.5	40023.1	37107.9	21513.2
62.5°	1968.6	1946.6	1899.4	2085.0	3361.7	10113.5	26381.2	27488.2	34004.1	35312.3	20733.3
65°	1685.6	1638.4	1506.3	1478.0	1698.2	4028.4	16431.3	18236.3	25963.0	30576.3	18513.1
67.5°	1440.3	1421.4	1301.9	1229.6	1201.3	1754.8	8478.2	9427.9	17745.8	21978.6	14022.4
70°	1223.3	1213.9	1141.5	1050.3	971.7	1050.3	3144.7	3896.3	9890.2	11833.7	6616.5
72.5°	993.7	1003.2	1015.8	899.4	817.6	745.3	1342.8	1562.9	4138.5	4229.7	2314.5
75°	871.1	861.7	861.7	783.0	682.4	553.5	739.0	795.6	1267.3	1176.1	537.8
77.5°	613.2	591.2	691.8	644.7	569.2	393.1	421.4	446.6	525.2	449.7	251.6
80°	424.5	424.5	443.4	578.6	512.6	286.2	257.9	276.7	311.3	267.3	144.7
82.5°	239.0	245.3	289.3	308.2	298.8	191.8	169.8	173.0	207.6	182.4	91.2
85°	28.3	47.2	166.7	163.5	122.6	84.9	94.3	97.5	128.9	113.2	53.5
87.5°	3.1	6.3	34.6	44.0	31.4	34.6	34.6	34.6	44.0	50.3	37.7
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°	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6	10355.6
2.5°	10396.5	10157.5	9588.3	8927.9	8506.5	7821.0	7242.3	6824.1	6720.3	6519.0	6578.8
5°	10383.9	9887.1	8726.6	7500.2	6192.0	5217.1	4490.7	3918.3	3666.8	3500.1	3383.7
7.5°	10390.2	9613.5	7751.8	5798.9	4236.0	3280.0	2607.0	2257.9	2025.2	1927.7	1940.3
10°	10409.1	9305.3	6619.7	4295.7	2858.6	2119.6	1707.6	1540.9	1462.3	1449.7	1446.6
12.5°	10453.1	8968.8	5537.9	3188.8	2000.1	1540.9	1383.7	1327.1	1301.9	1301.9	1292.5
15°	10500.3	8597.7	4638.5	2371.1	1540.9	1323.9	1251.6	1223.3	1207.6	1207.6	1204.4
17.5°	10500.3	8170.0	3798.8	1839.7	1327.1	1217.0	1160.4	1122.7	1110.1	1110.1	1106.9
20°	10434.2	7673.2	3053.5	1481.2	1204.4	1116.4	1059.8	1018.9	1003.2	996.9	993.7
22.5°	10204.7	7009.6	2430.9	1273.6	1103.8	1028.3	956.0	908.8	896.3	890.0	893.1
25°	9795.9	6261.2	1924.6	1119.5	1012.6	921.4	858.5	823.9	811.3	811.3	814.5
27.5°	9374.5	5478.1	1525.2	1003.2	902.5	820.8	770.5	748.4	745.3	754.7	757.9
30°	8984.5	4692.0	1235.9	908.8	805.1	735.9	701.3	695.0	695.0	698.1	701.3
32.5°	8550.5	4003.3	1034.6	827.1	726.4	666.7	647.8	647.8	654.1	654.1	660.4
35°	8277.0	3412.0	908.8	748.4	666.7	616.4	603.8	606.9	616.4	628.9	635.2
37.5°	8129.1	2940.3	827.1	685.6	610.1	575.5	562.9	569.2	591.2	613.2	616.4
40°	8141.7	2585.0	761.0	632.1	566.1	528.3	518.9	537.8	559.8	581.8	584.9
42.5°	8280.1	2320.8	698.1	569.2	528.3	474.9	471.7	490.6	500.0	522.0	525.2
45°	8443.6	2129.0	632.1	503.2	459.1	412.0	415.1	430.8	443.4	478.0	484.3
47.5°	8493.9	1996.9	556.6	427.7	377.4	361.6	364.8	374.2	399.4	430.8	434.0
50°	8550.5	1915.1	484.3	361.6	320.8	317.6	320.8	327.1	342.8	355.4	352.2
52.5°	8792.7	1912.0	424.5	314.5	273.6	279.9	283.0	279.9	267.3	248.4	242.1
54°	9019.1	1921.4	396.2	292.5	251.6	261.0	257.9	242.1	210.7	191.8	182.4
55°	9201.5	1930.9	380.5	276.7	239.0	242.1	245.3	213.8	173.0	154.1	147.8
57.5°	9560.0	1908.9	342.8	242.1	210.7	198.1	195.0	141.5	94.3	81.8	75.5
60°	9380.8	1723.3	311.3	207.6	179.3	160.4	132.1	78.6	47.2	34.6	34.6
62.5°	8676.3	1462.3	276.7	169.8	147.8	122.6	69.2	44.0	22.0	12.6	9.4
65°	7761.2	1229.6	248.4	135.2	116.4	78.6	37.7	28.3	9.4	0.0	0.0
67.5°	5770.6	912.0	210.7	106.9	88.1	50.3	25.2	15.7	3.1	0.0	0.0
70°	2673.0	556.6	179.3	81.8	62.9	37.7	18.9	9.4	0.0	0.0	0.0
72.5°	767.3	349.1	147.8	59.8	44.0	31.4	15.7	6.3	3.1	0.0	0.0
75°	267.3	279.9	110.1	44.0	34.6	22.0	12.6	6.3	3.1	0.0	0.0
77.5°	160.4	226.4	69.2	37.7	28.3	18.9	12.6	6.3	3.1	3.1	0.0
80°	91.2	150.9	44.0	31.4	25.2	15.7	9.4	6.3	3.1	3.1	0.0
82.5°	50.3	72.3	34.6	28.3	22.0	15.7	9.4	6.3	3.1	3.1	3.1
85°	40.9	37.7	28.3	25.2	18.9	12.6	9.4	3.1	0.0	0.0	0.0
87.5°	31.4	25.2	25.2	25.2	18.9	12.6	9.4	3.1	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)