

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: P383553

Luminaire Tested: **GLEON-SA8C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 43228.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 445
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

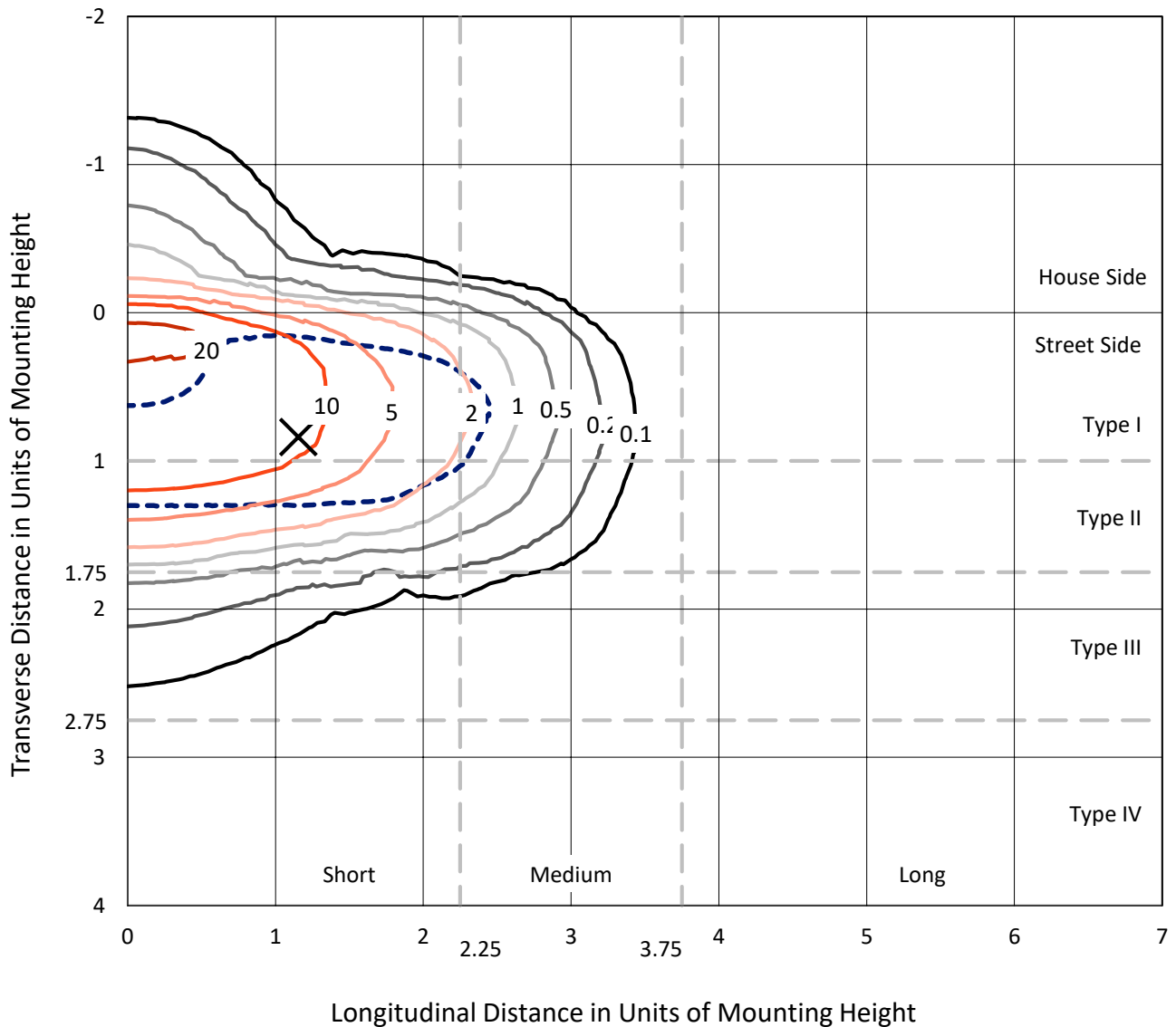




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Iso-Footcandle Lines of Horizontal Illumination

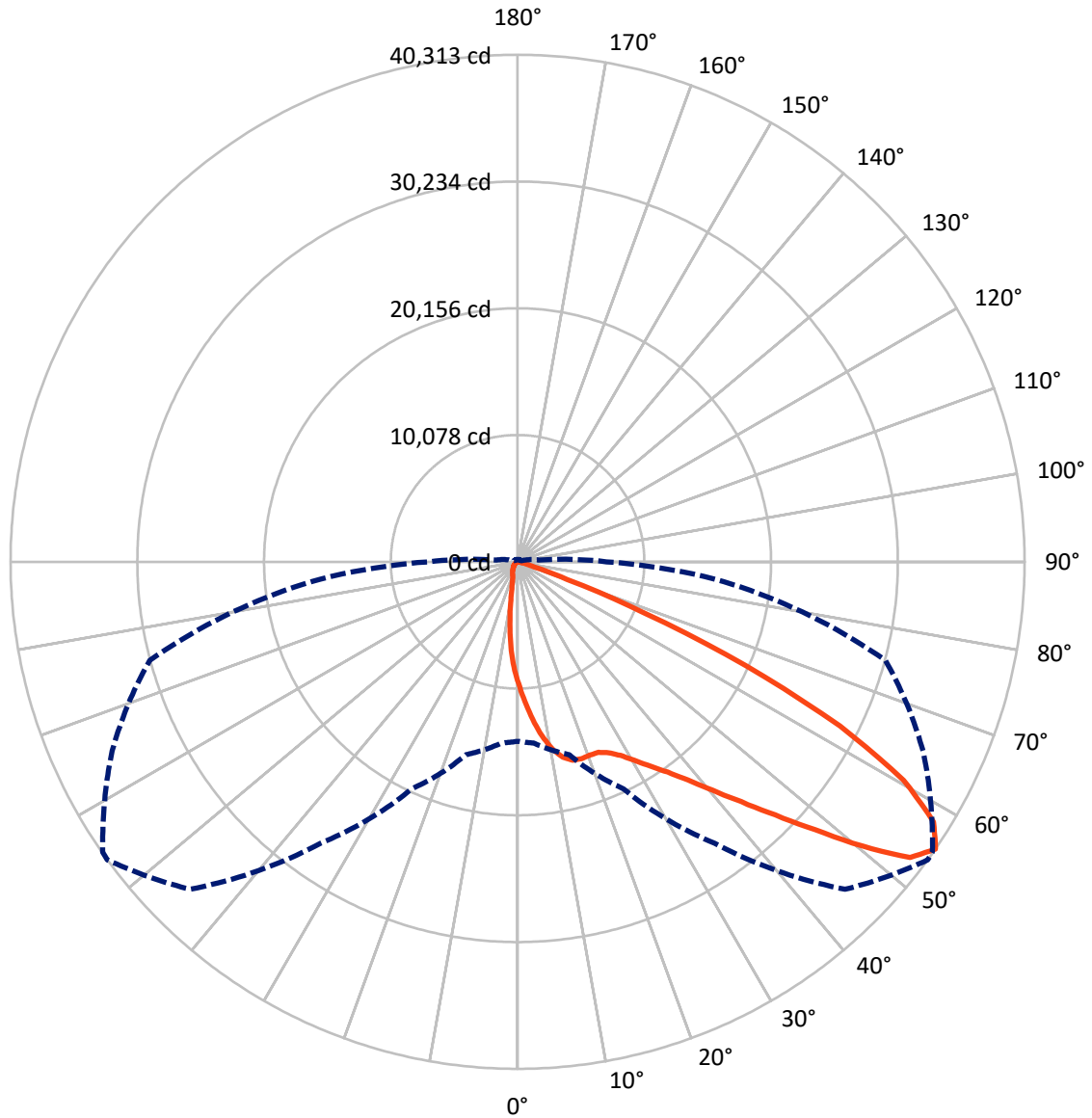
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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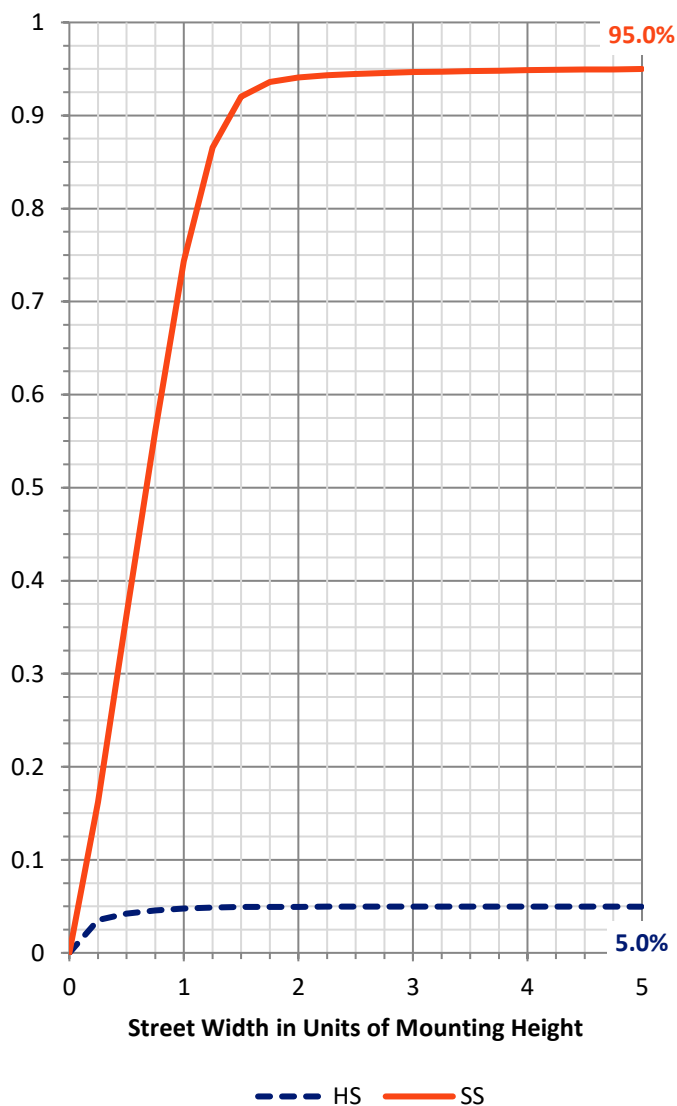
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2156.8	0.0	2156.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	41071.7	0.0	41071.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	43228.5	0.0	43228.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.5	2.1
10°-20°	2445.1	5.7
20°-30°	4174.6	9.7
30°-40°	6699.5	15.5
40°-50°	10705.9	24.8
50°-60°	11471.6	26.5
60°-70°	5889.9	13.6
70°-80°	892.2	2.1
80°-90°	58.1	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°	43228.5	100.0
0°-180°	43228.5	100.0

Coefficient of Utilization



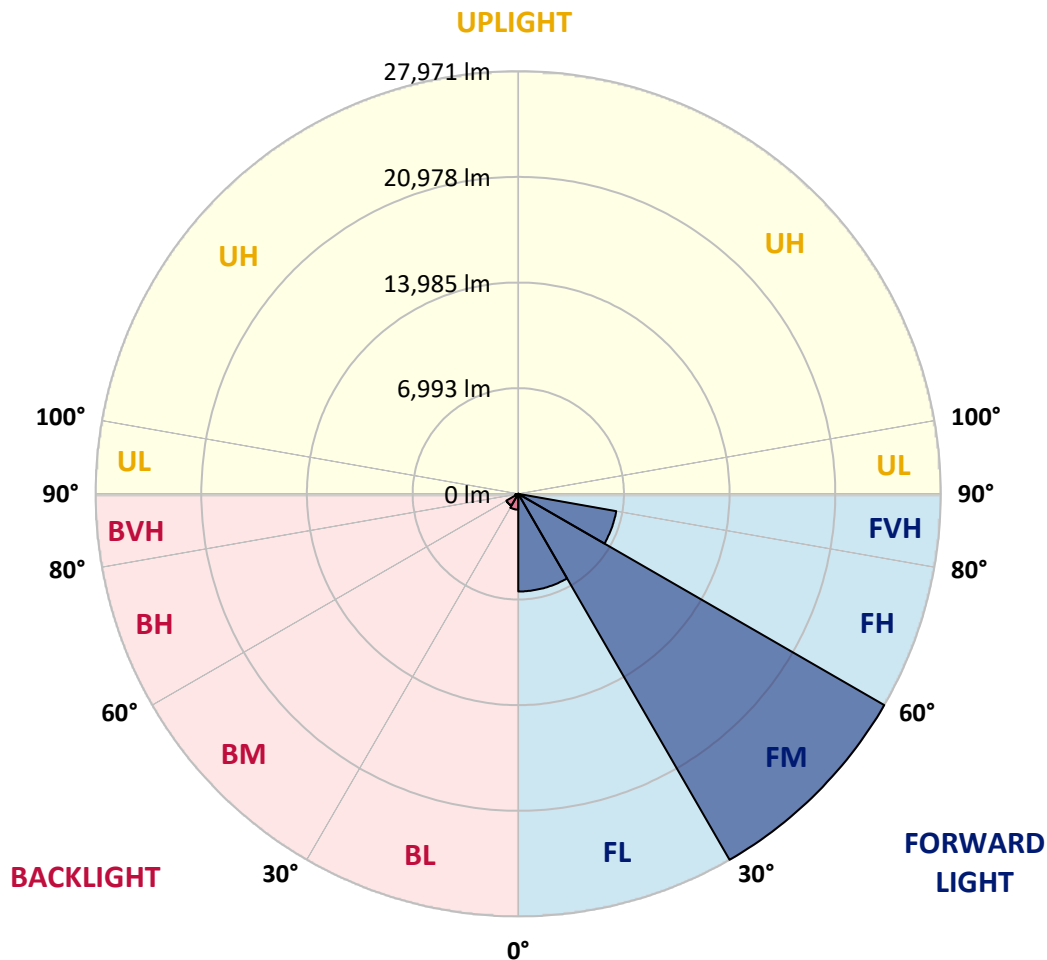
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6461.9	14.9			
FM (30°-60°)	27970.7	64.7			
FH (60°-80°)	6583.3	15.2			G3/7500
FVH (80°-90°)	55.8	0.1			G1/100
BL (0°-30°)	1049.4	2.4	B3/2500		
BM (30°-60°)	906.3	2.1	B1/1000		
BH (60°-80°)	198.8	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	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°	54°	55°	65°	75°	85°
0°	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5
2.5°	12149.4	11968.3	11973.9	11891.8	11591.2	11356.0	11111.4	11053.6	10672.7	10273.2	9888.7
5°	14249.6	14117.0	14085.3	13926.6	13508.5	13066.0	12591.8	12481.7	11736.8	10919.1	10114.6
7.5°	15328.6	15330.5	15304.4	15246.5	14985.2	14555.8	13977.0	13861.3	12847.6	11621.1	10349.8
10°	15015.0	15085.9	15231.5	15423.8	15623.6	15569.4	15134.5	15030.0	13928.5	12364.1	10611.2
12.5°	14283.2	14292.5	14454.9	14770.4	15345.5	15935.3	15942.8	15907.4	14960.8	13140.7	10898.6
15°	13919.2	13954.7	14014.4	14217.8	14763.0	15707.6	16383.4	16433.8	15907.4	13965.9	11204.7
17.5°	14158.1	14208.5	14158.1	14182.4	14497.9	15347.3	16460.0	16588.7	16734.4	14781.6	11494.2
20°	14805.9	14852.6	14763.0	14664.0	14725.6	15242.7	16405.8	16579.4	17382.1	15506.0	11736.8
22.5°	15679.6	15698.3	15562.0	15399.6	15354.8	15597.5	16450.6	16629.8	17901.2	16161.2	11889.9
25°	16641.1	16657.8	16487.9	16301.2	16194.9	16293.8	16818.3	16952.8	18358.6	16786.7	11977.7
27.5°	17688.3	17703.2	17490.5	17260.8	17137.6	17141.3	17425.1	17568.9	18845.8	17499.8	12048.6
30°	18795.4	18787.9	18591.9	18272.7	18115.8	18112.1	18298.8	18444.4	19551.4	18414.6	12145.7
32.5°	20038.7	20023.7	19745.5	19349.8	19172.5	19198.6	19364.7	19448.8	20427.0	19389.0	12319.3
35°	21675.9	21633.0	21212.9	20721.9	20395.2	20385.9	20525.9	20593.2	21543.3	20568.9	12608.7
37.5°	23800.4	23761.2	23191.8	22478.6	22019.4	21847.7	22013.8	22099.7	23135.7	22082.9	13073.5
40°	25895.0	25855.8	25517.9	24864.5	24156.9	23744.4	23875.0	23966.5	25123.9	23919.8	13659.7
42.5°	27339.9	27373.5	27491.1	27545.2	26882.5	26016.3	26076.1	26171.3	27212.9	25883.8	14329.9
45°	27720.7	27793.6	28458.1	29763.0	30011.4	29335.6	28710.2	28762.5	29335.6	27847.7	15000.1
47.5°	26576.4	26710.7	27993.3	30420.2	32522.3	33000.2	31816.5	31747.5	31372.3	29436.3	15476.1
50°	23975.9	24099.0	25760.6	29350.5	33283.9	36498.6	35539.1	35335.6	33158.8	30386.6	15644.1
52.5°	20212.3	20361.7	21711.4	25982.7	31848.3	38059.3	39063.7	38893.8	34469.4	30461.2	15672.2
55°	14273.9	14454.9	15883.1	19913.6	27298.8	36817.8	40312.5	40262.1	35557.7	30263.4	15731.9
57.5°	8021.8	8152.5	9692.7	12765.5	19993.9	32068.6	39007.6	39341.9	36214.8	29919.9	15821.5
60°	3562.0	3597.5	4394.6	6354.7	11705.1	24507.9	35272.1	35835.9	35651.1	29460.7	15972.7
62.5°	1975.2	1945.3	1945.3	2641.6	5087.2	15171.8	28762.5	29694.0	33244.7	28917.4	15980.1
65°	1547.6	1519.6	1439.3	1450.5	1937.8	6733.7	19917.3	21573.2	28674.7	27325.0	15442.5
67.5°	1312.4	1288.1	1207.8	1176.1	1204.1	2221.6	10943.4	12662.8	21758.1	23186.2	13375.9
70°	1108.9	1092.1	1051.1	1011.8	940.9	1097.7	4187.3	5355.9	13407.7	15423.8	9130.8
72.5°	892.3	884.9	899.8	866.2	780.4	731.8	1431.9	1734.3	6022.5	6883.0	3761.7
75°	769.2	765.4	772.9	739.3	642.2	509.6	728.1	795.3	1698.9	1683.9	761.6
77.5°	500.3	505.9	640.3	625.3	552.6	339.7	377.1	407.0	515.2	386.4	231.5
80°	319.2	315.5	324.8	519.0	496.6	259.5	188.5	197.9	248.3	190.4	112.0
82.5°	194.1	190.4	212.9	242.7	250.1	181.1	115.7	117.7	154.9	123.2	59.7
85°	16.8	22.4	128.8	119.5	85.9	56.0	56.0	59.7	82.2	72.8	33.6
87.5°	0.0	0.0	22.4	33.6	18.6	20.5	20.5	22.4	31.8	31.8	16.8
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°	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5	9681.5
2.5°	9688.9	9494.8	9102.7	8725.6	8406.4	8098.3	7747.4	7400.1	7237.8	7172.5	7105.2
5°	9705.7	9306.2	8497.9	7684.0	6840.1	6080.3	5432.5	4767.9	4435.7	4290.0	4222.8
7.5°	9728.2	9119.5	7812.7	6446.2	5087.2	4056.6	3156.8	2578.2	2327.9	2288.7	2191.7
10°	9731.9	8893.7	7017.4	5079.6	3410.7	2445.6	1881.8	1583.1	1473.0	1454.2	1422.6
12.5°	9739.3	8626.7	6134.4	3761.7	2273.8	1635.3	1360.9	1262.0	1232.2	1230.3	1230.3
15°	9761.7	8346.7	5217.8	2710.6	1633.5	1295.6	1194.8	1155.6	1144.4	1150.0	1148.1
17.5°	9761.7	8016.2	4318.0	2020.0	1319.8	1164.9	1108.9	1082.7	1079.0	1084.6	1086.5
20°	9690.8	7614.8	3492.8	1571.9	1170.5	1080.9	1030.5	1006.3	996.8	1000.7	1002.5
22.5°	9520.9	7122.0	2820.8	1301.2	1071.6	1004.4	950.2	912.9	897.9	899.8	899.8
25°	9255.8	6537.7	2206.6	1125.7	991.3	922.2	858.8	815.8	806.4	804.6	808.3
27.5°	8916.0	5891.8	1756.7	991.3	896.1	830.8	767.3	731.8	724.4	726.2	728.1
30°	8581.9	5221.5	1385.2	877.4	789.7	728.1	679.6	662.7	662.7	668.3	670.2
32.5°	8275.7	4577.5	1095.9	778.5	694.5	638.5	610.4	608.6	617.9	621.6	623.5
35°	8012.5	3982.0	907.3	701.9	619.8	571.2	561.9	569.4	580.6	588.1	589.9
37.5°	7825.8	3449.9	793.4	638.5	561.9	522.7	520.8	535.8	550.7	567.5	571.2
40°	7747.4	3000.0	715.0	582.5	515.2	485.3	479.7	500.3	528.3	552.6	556.3
42.5°	7682.1	2632.3	647.8	528.3	477.9	434.9	433.1	459.3	492.9	517.1	522.7
45°	7626.0	2337.3	586.2	470.4	429.4	373.4	379.0	412.6	438.7	464.8	470.4
47.5°	7510.3	2094.6	519.0	408.9	354.7	319.2	330.4	360.3	380.8	420.0	425.6
50°	7303.1	1896.7	449.9	334.1	289.3	276.3	293.1	313.7	339.7	373.4	377.1
52.5°	7163.0	1747.4	390.1	280.0	238.9	242.7	259.5	267.0	281.9	294.9	291.2
55°	7082.8	1665.2	341.6	242.7	203.4	214.7	218.4	209.1	201.6	188.5	183.0
57.5°	7073.4	1590.5	304.3	211.0	179.2	184.8	171.8	140.0	113.8	98.9	95.2
60°	7058.5	1499.0	274.4	177.4	158.6	151.2	123.2	76.6	54.1	50.4	50.4
62.5°	6896.2	1357.2	252.0	149.3	134.4	113.8	71.0	35.5	29.9	31.8	31.8
65°	6379.0	1159.3	229.6	121.4	106.4	82.2	35.5	20.5	11.2	13.0	13.0
67.5°	5423.2	924.1	205.3	93.3	80.3	52.3	20.5	9.3	0.0	0.0	0.0
70°	3631.0	573.1	173.6	65.3	52.3	31.8	14.9	1.9	0.0	0.0	0.0
72.5°	1392.7	309.9	140.0	39.2	33.6	22.4	9.3	0.0	0.0	0.0	0.0
75°	313.7	203.4	97.1	28.0	24.3	14.9	3.7	0.0	0.0	0.0	0.0
77.5°	119.5	147.5	56.0	18.6	16.8	9.3	0.0	0.0	0.0	0.0	0.0
80°	57.8	87.8	26.2	11.2	9.3	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	29.9	33.6	11.2	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	16.8	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	5.6	1.9	1.9	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)