

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: P383486

Luminaire Tested: **GLEON-SA7D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37255.4 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

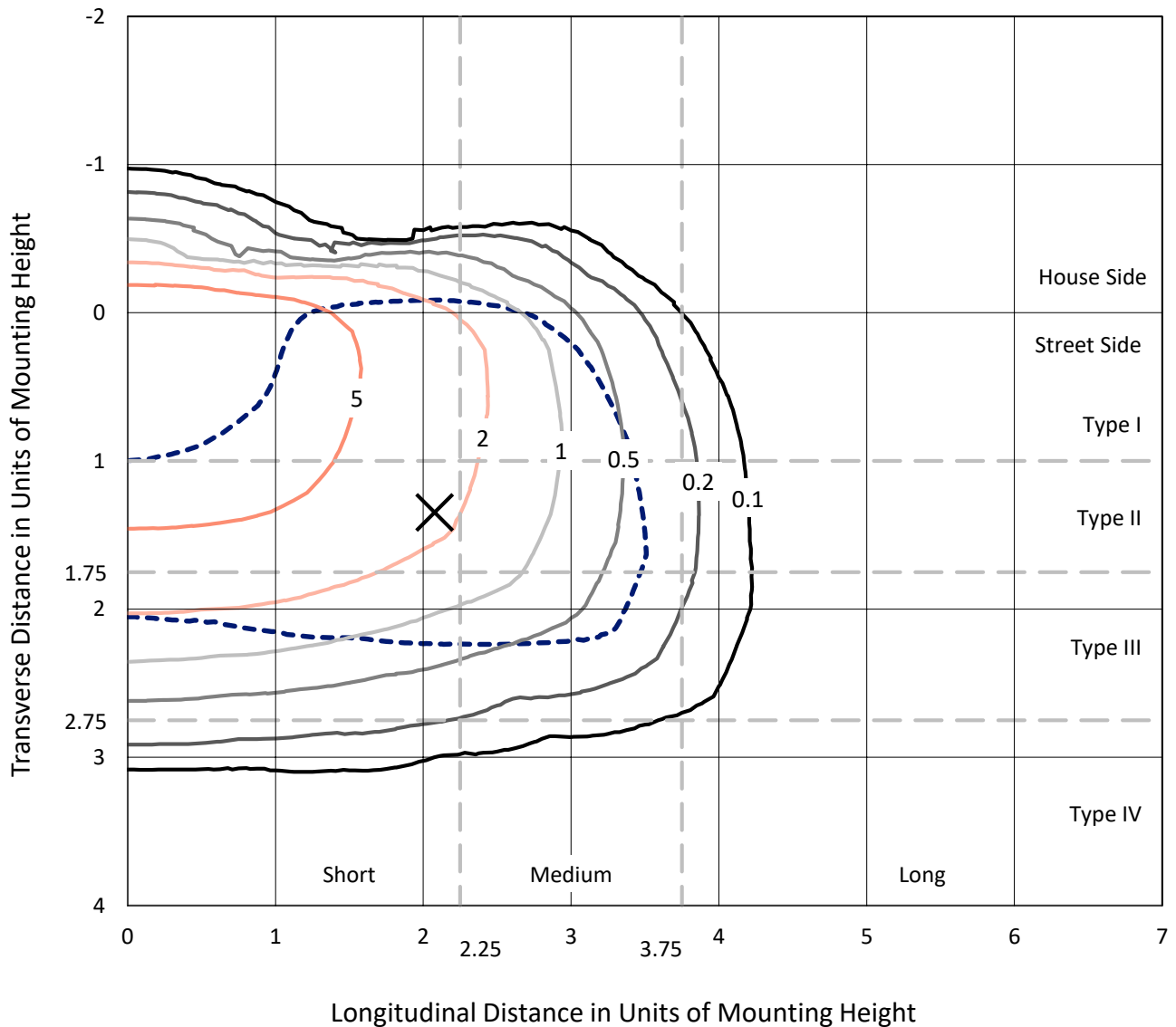




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Iso-Footcandle Lines of Horizontal Illumination

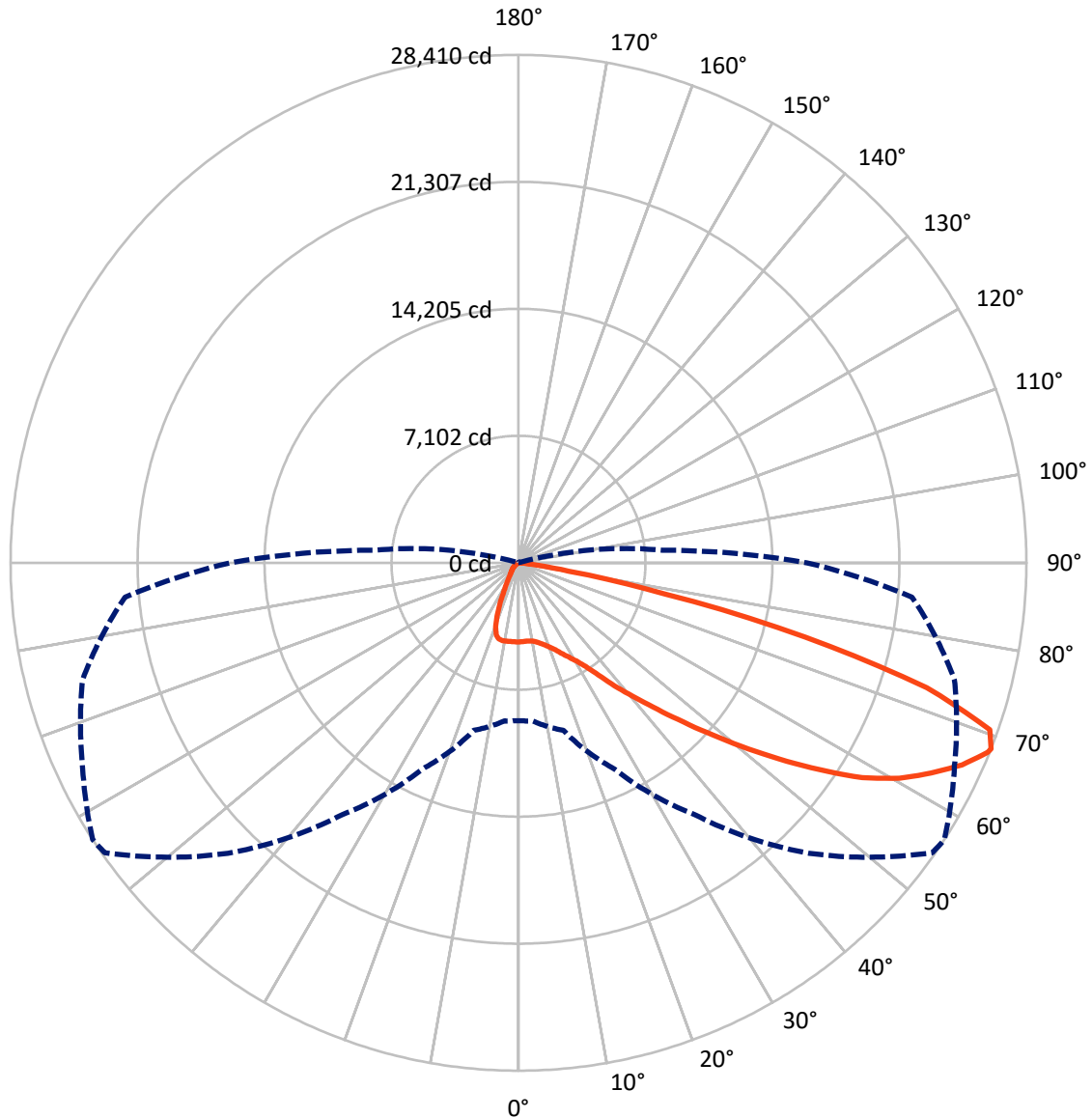
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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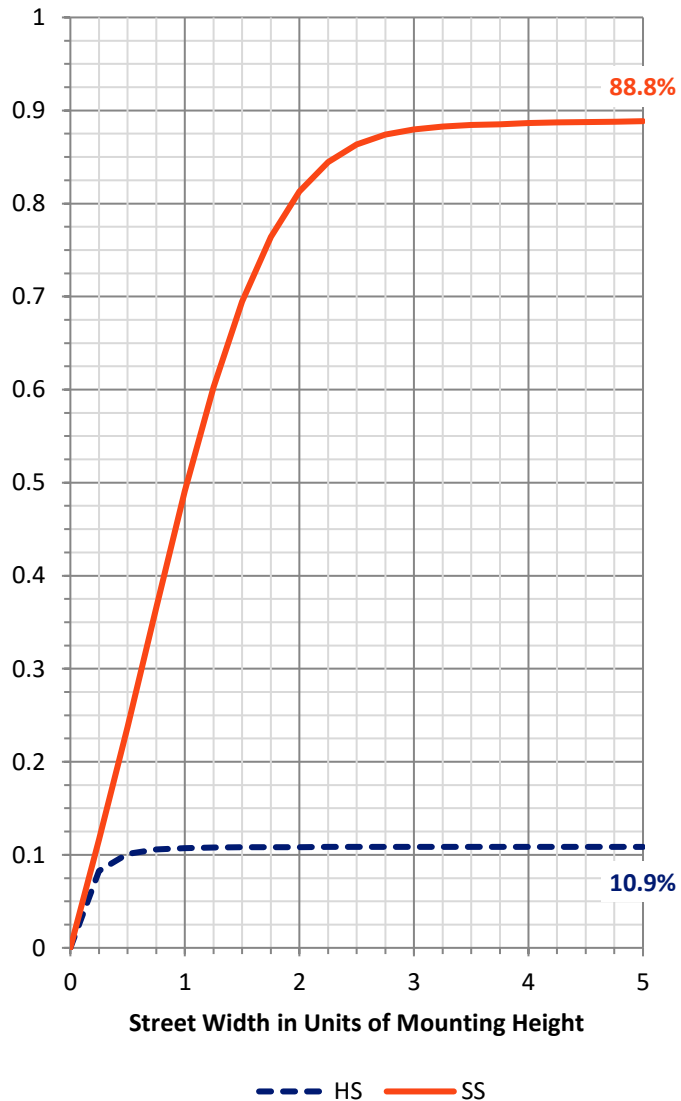
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4085.3	0.0	4085.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33170.1	0.0	33170.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	37255.4	0.0	37255.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	1.1
10°-20°	1148.0	3.1
20°-30°	1980.5	5.3
30°-40°	3418.2	9.2
40°-50°	5846.9	15.7
50°-60°	9354.5	25.1
60°-70°	10808.1	29.0
70°-80°	4129.9	11.1
80°-90°	154.8	0.4
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°	37255.4	100.0
0°-180°	37255.4	100.0

Coefficient of Utilization

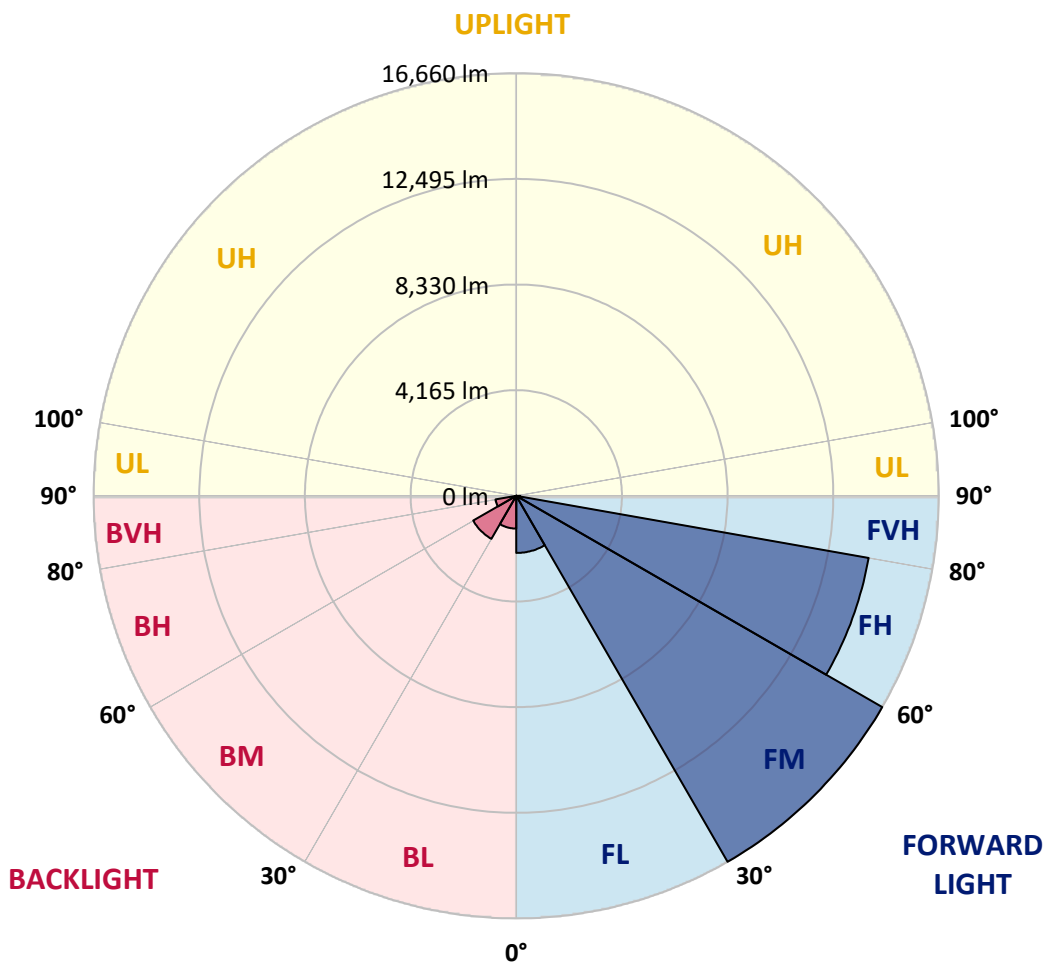


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.7	6.0			
FM (30°-60°)	16660.3	44.7			
FH (60°-80°)	14106.1	37.9			G5
FVH (80°-90°)	152.0	0.4			G2/225
BL (0°-30°)	1291.1	3.5	B3/2500		
BM (30°-60°)	1959.4	5.3	B2/2500		
BH (60°-80°)	832.0	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.8	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9
2.5°	4323.0	4342.4	4356.5	4365.2	4375.9	4398.8	4405.8	4416.4	4421.6	4421.6	4434.0
5°	4152.1	4173.2	4203.2	4227.8	4277.2	4340.6	4386.4	4404.0	4435.8	4463.9	4479.8
7.5°	3993.5	4018.2	4053.4	4111.6	4196.2	4298.3	4393.5	4418.1	4479.8	4539.7	4569.6
10°	3891.4	3910.7	3956.6	4039.4	4150.3	4293.0	4426.9	4456.9	4562.5	4663.0	4719.3
12.5°	3856.1	3873.7	3921.3	4014.7	4152.1	4319.5	4504.4	4548.5	4703.5	4849.7	4929.0
15°	3907.3	3910.7	3961.9	4049.9	4185.5	4384.6	4633.1	4685.9	4881.4	5071.6	5170.3
17.5°	4104.6	4088.7	4115.1	4153.9	4261.4	4471.0	4768.7	4848.0	5108.7	5332.4	5425.8
20°	4597.8	4597.8	4537.9	4432.2	4434.0	4604.8	4951.9	5041.7	5360.6	5619.6	5704.1
22.5°	5441.6	5425.8	5306.0	5047.0	4809.2	4835.6	5175.6	5291.8	5663.5	5940.1	5968.3
25°	6456.3	6436.9	6252.0	5887.3	5475.1	5209.1	5478.6	5612.5	6024.7	6269.6	6211.5
27.5°	7530.9	7515.0	7331.8	6879.1	6292.5	5804.5	5839.7	5966.6	6392.8	6634.2	6449.3
30°	8572.0	8577.2	8395.9	7930.7	7266.6	6563.8	6297.7	6371.7	6750.5	6995.4	6731.1
32.5°	9562.0	9569.0	9412.3	8892.6	8272.5	7446.3	6931.9	6912.5	7166.2	7407.6	7104.5
35°	10444.6	10462.2	10354.7	9951.4	9294.2	8429.3	7754.6	7708.8	7756.3	8029.4	7677.1
37.5°	11295.4	11306.0	11225.0	10884.9	10335.3	9509.1	8793.9	8728.8	8626.6	8836.2	8432.8
40°	12227.3	12200.9	12107.5	11799.3	11327.2	10701.8	9910.8	9798.1	9620.2	9806.9	9426.3
42.5°	13094.0	13064.1	13080.0	12731.2	12333.0	11927.8	11212.7	11018.9	10914.9	11129.9	10645.4
45°	14177.4	14161.6	14214.4	13911.5	13589.0	13294.9	12704.7	12493.4	12447.5	12699.4	12119.9
47.5°	15246.7	15285.5	15449.3	15320.7	15190.4	14931.4	14284.9	14189.8	14217.9	14522.7	13675.4
50°	16138.1	16183.9	16633.1	16781.1	16969.5	16818.1	16169.8	16111.7	16222.6	16497.4	15348.9
52.5°	16782.9	16876.2	17434.7	18116.4	18803.4	18905.6	18259.1	18206.3	18356.0	18398.3	16641.9
55°	17230.3	17313.1	17945.5	19192.8	20591.4	21031.8	20630.2	20425.9	20397.6	19980.2	18001.9
57.5°	17309.6	17300.8	18209.7	19888.5	21993.7	23130.0	22876.2	22675.5	22097.6	21442.3	19560.9
60°	16862.1	16913.2	17968.4	20129.9	22874.5	24717.1	24736.5	24475.8	23575.6	22863.9	21072.4
62.5°	15484.6	15692.4	16758.2	19497.5	22863.9	25356.6	26100.0	25900.9	24824.6	24028.3	22604.9
65°	13250.8	13324.8	14341.3	17330.7	21319.0	25088.8	27327.8	27253.8	25950.2	25159.3	23392.4
67.5°	9676.5	9516.2	10583.8	13647.2	18049.5	23528.0	28208.7	28302.0	26818.7	25391.8	22553.9
68°	8831.0	8878.5	9710.0	12736.4	17193.3	22976.6	28266.8	28409.5	26905.1	25240.3	22095.8
70°	5263.7	5355.3	6096.9	8769.3	13080.0	19856.9	27639.7	27965.5	26390.7	23677.8	19111.7
72.5°	1344.1	1453.3	2154.5	3924.9	7471.0	13990.7	23332.5	23883.9	22913.3	19208.6	12902.0
75°	553.2	581.3	769.8	1293.0	2783.4	6303.0	15378.8	16559.1	15884.4	11499.8	5830.9
77.5°	382.3	401.7	495.0	717.0	1205.0	2136.9	7539.7	8392.3	7560.8	3924.9	1271.8
80°	274.8	290.6	354.1	477.4	692.3	762.8	2457.4	2841.5	2256.6	861.4	315.3
82.5°	163.9	176.2	264.3	340.0	421.1	364.6	611.3	694.1	653.6	428.0	140.9
85°	81.0	95.1	177.9	243.1	227.2	153.2	186.8	207.8	257.2	260.7	75.7
87.5°	5.3	10.5	104.0	146.3	63.4	35.2	54.6	67.0	91.6	128.6	31.7
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°	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9	4426.9
2.5°	4439.3	4441.1	4428.7	4423.4	4426.9	4405.8	4397.0	4400.5	4400.5	4405.8	4397.0
5°	4483.3	4483.3	4462.1	4434.0	4418.1	4377.6	4351.2	4344.1	4338.9	4335.3	4328.2
7.5°	4578.5	4567.8	4530.9	4469.2	4416.4	4328.2	4261.4	4226.1	4208.5	4201.5	4196.2
10°	4731.7	4712.3	4650.7	4536.2	4414.6	4257.8	4111.6	4007.7	3921.3	3886.1	3865.0
12.5°	4937.8	4909.6	4805.7	4615.4	4402.2	4113.3	3796.2	3491.5	3207.9	3091.6	3033.5
15°	5175.6	5135.1	4971.3	4682.3	4330.0	3787.5	3098.7	2564.9	2172.1	2024.1	1960.6
17.5°	5416.9	5364.1	5115.7	4724.6	4113.3	3112.8	2173.9	1641.9	1379.3	1308.9	1284.2
20°	5660.1	5582.6	5240.8	4693.0	3623.6	2244.3	1433.9	1199.6	1123.9	1102.8	1095.7
22.5°	5890.8	5771.0	5353.5	4569.6	2869.6	1506.2	1134.4	1060.5	1035.8	1023.5	1020.0
25°	6091.7	5924.3	5452.2	4189.1	2031.1	1138.0	1021.7	997.0	965.4	942.4	944.2
27.5°	6280.1	6077.5	5512.1	3562.0	1354.7	972.4	946.0	912.5	854.4	820.9	820.9
30°	6507.4	6281.9	5556.1	2741.1	997.0	859.6	838.5	787.4	708.2	664.1	664.1
32.5°	6849.1	6591.9	5527.9	1923.6	826.2	755.8	706.4	636.0	549.6	507.3	505.6
35°	7372.4	7071.1	5327.1	1261.3	729.3	657.1	577.8	491.5	415.7	380.5	378.8
37.5°	8077.0	7712.3	4876.1	901.9	653.6	565.4	470.3	375.2	318.9	296.0	294.2
40°	8991.2	8457.5	4231.4	731.1	583.1	477.4	362.9	290.6	251.9	234.3	236.1
42.5°	10088.8	9255.5	3458.0	630.7	514.4	392.8	283.7	229.0	204.4	192.0	188.5
45°	11307.8	10042.9	2647.7	561.9	445.7	317.1	222.0	181.5	162.1	155.0	155.0
47.5°	12648.4	10809.2	1937.8	502.1	371.7	244.9	177.9	147.9	132.1	126.9	125.1
50°	13865.6	11341.2	1396.9	438.7	304.8	193.8	144.5	123.3	112.7	105.7	105.7
52.5°	14880.3	11508.6	1028.8	369.9	246.6	155.0	119.8	105.7	95.1	89.8	89.8
55°	15773.4	11439.9	764.5	304.8	199.1	126.9	102.2	89.8	81.0	75.7	75.7
57.5°	16629.6	11217.9	570.8	248.4	160.3	102.2	86.4	75.7	67.0	63.4	63.4
60°	17328.9	10848.0	424.5	200.8	128.6	82.8	72.2	61.7	54.6	49.3	49.3
62.5°	17896.1	10439.3	311.8	165.6	102.2	65.2	56.4	51.0	40.5	35.2	35.2
65°	17899.7	9761.0	234.3	137.4	79.3	51.0	42.3	40.5	26.5	21.1	19.4
67.5°	16604.9	8415.2	179.7	118.0	61.7	38.8	31.7	33.4	14.1	8.8	7.1
68°	16134.6	8073.4	169.1	116.3	58.1	37.0	29.9	33.4	12.3	7.1	5.3
70°	13603.1	6422.8	135.6	112.7	51.0	28.2	24.7	33.4	10.5	5.3	3.5
72.5°	8700.6	3727.6	100.4	89.8	38.8	21.1	15.8	29.9	10.5	3.5	1.8
75°	3702.9	1155.6	68.7	63.4	22.9	15.8	10.5	19.4	7.1	1.8	0.0
77.5°	780.4	260.7	40.5	38.8	15.8	10.5	7.1	5.3	1.8	0.0	0.0
80°	200.8	75.7	21.1	19.4	8.8	5.3	3.5	0.0	0.0	0.0	0.0
82.5°	63.4	29.9	12.3	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	17.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	5.3	1.8	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)