

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: P193977

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28615 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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: 25 FT

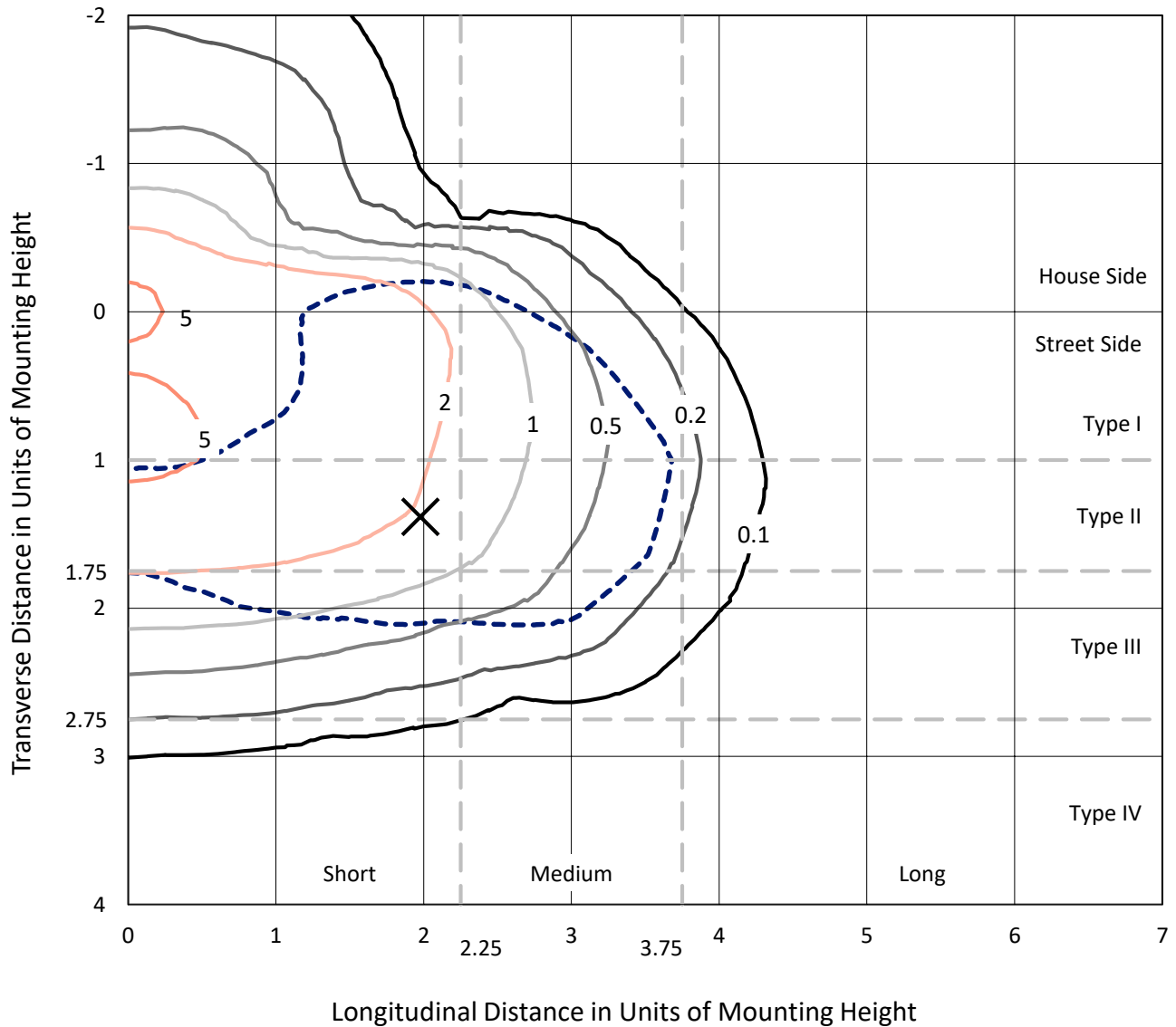


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Iso-Footcandle Lines of Horizontal Illumination

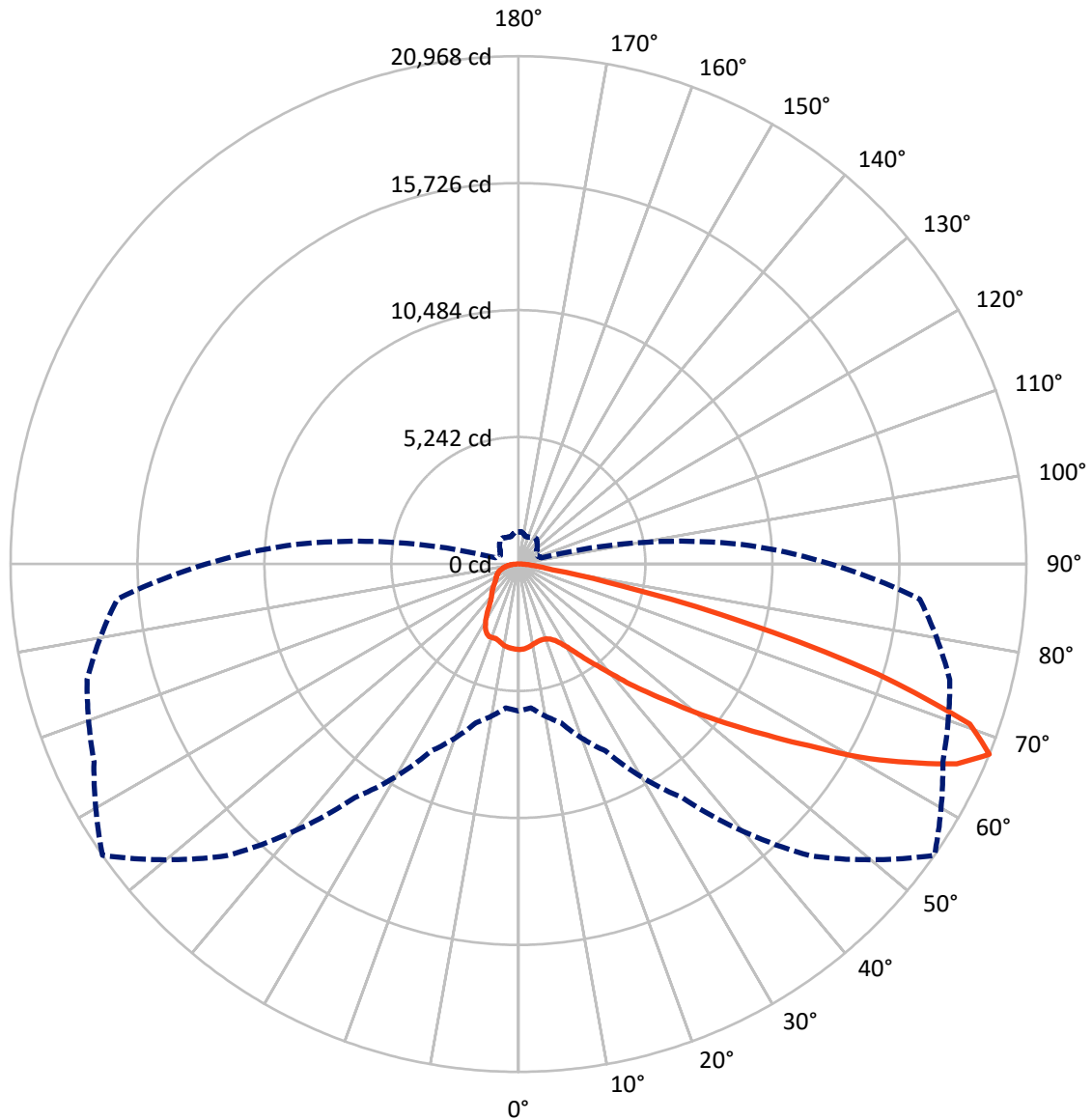
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6181.5	0.0	6181.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22433.5	0.0	22433.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	28615.0	0.0	28615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	1.2
10°-20°	932.8	3.3
20°-30°	1562.5	5.5
30°-40°	2569.5	9.0
40°-50°	4325.2	15.1
50°-60°	6807.5	23.8
60°-70°	8124.0	28.4
70°-80°	3488.6	12.2
80°-90°	475.6	1.7
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°	28615.0	100.0
0°-180°	28615.0	100.0



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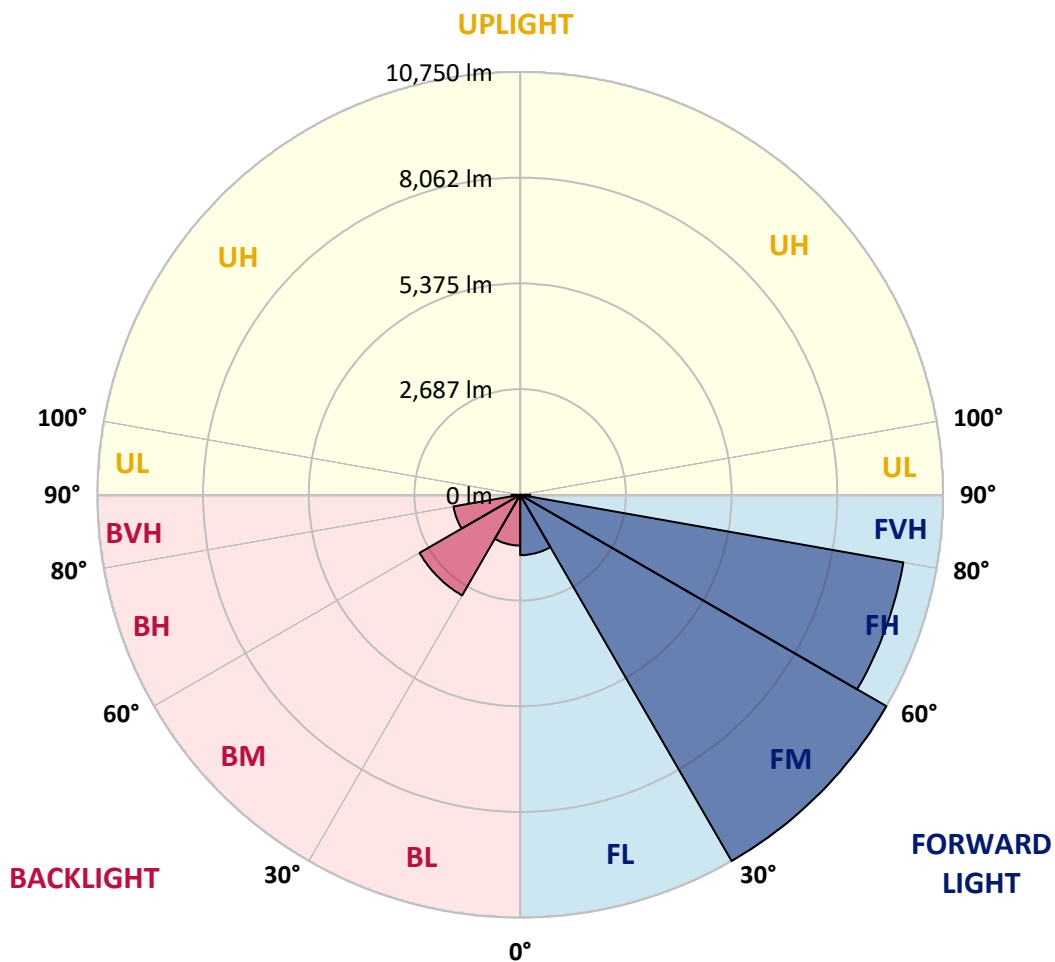
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.8	5.4			
FM	(30°-60°)	10749.9	37.6			
FH	(60°-80°)	9892.3	34.6			G4/12000
FVH	(80°-90°)	257.5	0.9			G3/500
BL	(0°-30°)	1290.8	4.5	B3/2500		
BM	(30°-60°)	2952.2	10.3	B3/5000		
BH	(60°-80°)	1720.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	218.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5
2.5°	3498.1	3499.5	3502.3	3513.3	3523.0	3520.2	3521.6	3516.1	3514.7	3506.4	3514.7
5°	3453.9	3458.1	3459.4	3477.4	3488.5	3491.2	3487.1	3480.2	3471.9	3463.6	3467.7
7.5°	3353.0	3364.1	3365.5	3390.3	3408.3	3431.8	3433.2	3434.6	3430.4	3424.9	3433.2
10°	3289.4	3292.2	3290.8	3308.8	3322.6	3348.9	3364.1	3390.3	3401.4	3404.2	3409.7
12.5°	3285.3	3282.5	3278.4	3278.4	3274.2	3285.3	3312.9	3350.2	3376.5	3384.8	3391.7
15°	3329.5	3328.1	3314.3	3293.6	3267.3	3259.0	3282.5	3324.0	3358.5	3376.5	3383.4
17.5°	3429.0	3420.7	3398.6	3351.6	3295.0	3272.9	3275.6	3310.2	3350.2	3373.7	3380.7
20°	3611.5	3611.5	3564.5	3476.0	3375.1	3322.6	3297.7	3318.5	3357.2	3388.9	3398.6
22.5°	3926.6	3929.4	3850.6	3705.5	3535.5	3423.5	3361.3	3357.2	3402.8	3438.7	3449.8
25°	4373.0	4362.0	4251.4	4044.1	3785.6	3600.4	3492.6	3467.7	3506.4	3546.5	3560.3
27.5°	4892.7	4852.6	4721.3	4471.1	4136.7	3865.8	3699.9	3659.8	3697.2	3742.8	3756.6
30°	5406.8	5365.4	5209.2	4935.5	4563.7	4221.0	3983.3	3918.3	3970.8	4035.8	4044.1
32.5°	5921.0	5921.0	5746.8	5427.6	5022.6	4645.3	4360.6	4283.2	4370.3	4449.0	4467.0
35°	6536.0	6538.8	6370.2	5985.9	5550.6	5151.1	4837.4	4780.7	4912.0	4967.3	5010.2
37.5°	7292.0	7307.2	7090.3	6625.9	6149.0	5728.9	5355.7	5278.3	5409.6	5560.3	5698.5
40°	8108.9	8128.2	7889.1	7316.9	6840.1	6400.6	5997.0	5857.4	6075.8	6363.3	6541.6
42.5°	8888.4	8987.9	8757.1	8168.3	7655.5	7200.8	6791.7	6588.5	6862.2	7296.2	7451.0
45°	10014.8	10086.7	9684.5	9151.0	8668.6	8160.0	7618.2	7404.0	7786.8	8334.2	8365.9
47.5°	10765.3	10711.4	10506.8	10175.1	9869.7	9394.2	8578.8	8343.8	8852.5	9496.5	9318.2
50°	11164.7	11181.3	11153.7	11173.0	11184.1	10885.5	9756.4	9434.3	10041.1	10819.2	10408.7
52.5°	11537.9	11427.3	11518.6	11971.9	12519.2	12408.6	11037.6	10701.7	11315.4	12287.0	11561.4
55°	11529.6	11361.0	11658.1	12458.4	13645.6	13772.8	12476.4	12089.4	12662.9	13861.2	12783.2
57.5°	11121.9	11130.2	11587.7	12635.3	14430.7	15055.4	14146.0	13565.5	14092.1	15456.2	13898.6
60°	10560.7	10636.8	11296.0	12606.3	15059.5	16107.2	16194.3	15156.3	15492.1	16906.0	14821.8
62.5°	9655.5	9735.6	10645.1	12305.0	14964.2	17120.3	18046.3	16961.3	16955.8	17785.1	15092.7
65°	8227.7	8204.2	9159.3	11178.6	14163.9	17869.4	19885.9	18521.7	18058.7	17798.9	14548.2
67.5°	6067.5	5962.4	6782.0	8513.8	11772.9	17030.4	20968.1	19334.4	18434.7	16628.2	12884.1
70°	3148.5	3043.4	3706.8	4971.5	7742.6	13291.8	19769.8	18914.3	17604.0	13938.6	10093.6
72.5°	1346.2	1328.2	1597.7	2181.0	3745.5	7666.6	15501.8	16371.2	15105.1	10385.2	6939.6
75°	905.3	899.8	1000.7	1188.6	1684.8	3111.1	9701.1	11620.8	11051.4	6439.3	3903.1
77.5°	710.4	703.5	762.9	854.1	1091.9	1227.3	4305.3	6238.9	5774.5	2802.9	1708.3
80°	555.6	550.1	587.4	637.2	785.0	774.0	1416.7	2482.3	1921.1	1073.9	830.7
82.5°	438.1	438.1	468.5	469.9	557.0	528.0	739.4	1093.3	959.2	626.1	508.6
85°	400.8	400.8	432.6	351.1	363.5	333.1	458.9	648.2	608.1	257.1	221.1
87.5°	201.8	196.3	363.5	311.0	197.6	176.9	223.9	313.7	337.2	142.4	110.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5	3528.5
2.5°	3512.0	3510.6	3513.3	3514.7	3525.8	3541.0	3547.9	3557.6	3563.1	3560.3
5°	3470.5	3473.3	3484.3	3492.6	3512.0	3536.8	3550.7	3561.7	3571.4	3567.2
7.5°	3435.9	3442.9	3459.4	3466.3	3477.4	3484.3	3482.9	3487.1	3495.4	3485.7
10°	3416.6	3424.9	3437.3	3427.6	3401.4	3364.1	3329.5	3311.5	3317.1	3310.2
12.5°	3397.2	3408.3	3398.6	3353.0	3279.8	3231.4	3205.1	3207.9	3220.3	3223.1
15°	3386.2	3390.3	3348.9	3263.2	3188.5	3181.6	3195.5	3192.7	3194.1	3194.1
17.5°	3386.2	3375.1	3297.7	3212.0	3180.2	3167.8	3125.0	3071.1	3047.6	3039.3
20°	3404.2	3375.1	3281.1	3224.5	3155.4	3048.9	2935.6	2836.1	2791.9	2779.4
22.5°	3458.1	3408.3	3328.1	3230.0	3033.7	2855.5	2675.8	2556.9	2476.8	2462.9
25°	3567.2	3512.0	3420.7	3156.8	2840.2	2585.9	2381.4	2248.7	2168.5	2157.5
27.5°	3758.0	3722.0	3470.5	2995.0	2583.2	2310.9	2121.5	2019.3	1959.8	1955.7
30°	4045.5	4027.5	3445.6	2755.9	2266.7	2044.1	1952.9	1893.5	1849.3	1847.9
32.5°	4504.3	4359.2	3364.1	2464.3	1977.8	1854.8	1817.5	1781.5	1747.0	1747.0
35°	5094.5	4627.3	3209.3	2152.0	1802.3	1749.8	1702.8	1646.1	1600.5	1597.7
37.5°	5788.3	4793.2	2931.5	1900.4	1719.4	1679.3	1610.2	1525.9	1445.7	1431.9
40°	6489.0	4842.9	2540.3	1745.6	1666.8	1608.8	1524.5	1425.0	1347.6	1343.4
42.5°	7131.7	4747.6	2125.7	1639.2	1614.3	1536.9	1448.5	1360.0	1299.2	1297.8
45°	7670.7	4500.2	1777.4	1538.3	1559.0	1472.0	1393.2	1321.3	1274.3	1264.6
47.5°	8178.0	4150.5	1532.8	1431.9	1503.7	1436.0	1369.7	1302.0	1256.3	1249.4
50°	8766.8	3773.2	1361.4	1328.2	1455.4	1423.6	1389.0	1318.5	1242.5	1234.2
52.5°	9479.9	3447.0	1227.3	1237.0	1418.1	1440.2	1438.8	1365.5	1232.8	1221.8
55°	10276.0	3084.9	1126.4	1162.4	1402.8	1470.6	1451.2	1409.8	1241.1	1224.6
57.5°	11059.7	2662.0	1055.9	1105.7	1380.7	1467.8	1391.8	1332.4	1260.5	1237.0
60°	11647.1	2093.9	1002.0	1055.9	1332.4	1422.2	1326.8	1248.1	1256.3	1238.4
62.5°	11685.8	1618.5	937.1	1013.1	1259.1	1376.6	1284.0	1210.7	1274.3	1257.7
65°	10998.9	1223.2	874.9	962.0	1180.3	1347.6	1242.5	1190.0	1311.6	1293.7
67.5°	9260.2	984.1	822.4	909.4	1101.5	1286.7	1205.2	1170.7	1344.8	1313.0
70°	6685.3	838.9	771.2	845.9	1031.1	1217.6	1172.0	1136.1	1255.0	1205.2
72.5°	4115.9	727.0	713.2	761.5	977.2	1145.8	1122.3	1071.1	1130.6	1090.5
75°	2055.2	630.2	648.2	678.6	901.1	1064.2	1039.4	988.2	996.5	988.2
77.5°	984.1	539.0	572.2	595.7	803.0	971.6	945.4	892.8	883.2	884.6
80°	623.3	450.6	482.4	498.9	717.3	863.8	837.6	785.0	895.6	830.7
82.5°	389.8	366.3	374.6	405.0	624.7	751.9	717.3	670.3	807.2	638.5
85°	215.6	255.7	266.7	293.0	481.0	628.9	594.3	534.9	479.6	471.3
87.5°	128.5	152.0	156.2	175.5	323.4	454.7	402.2	381.5	316.5	315.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)