

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: P318219

Luminaire Tested: **GLEON-SA5D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27976 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

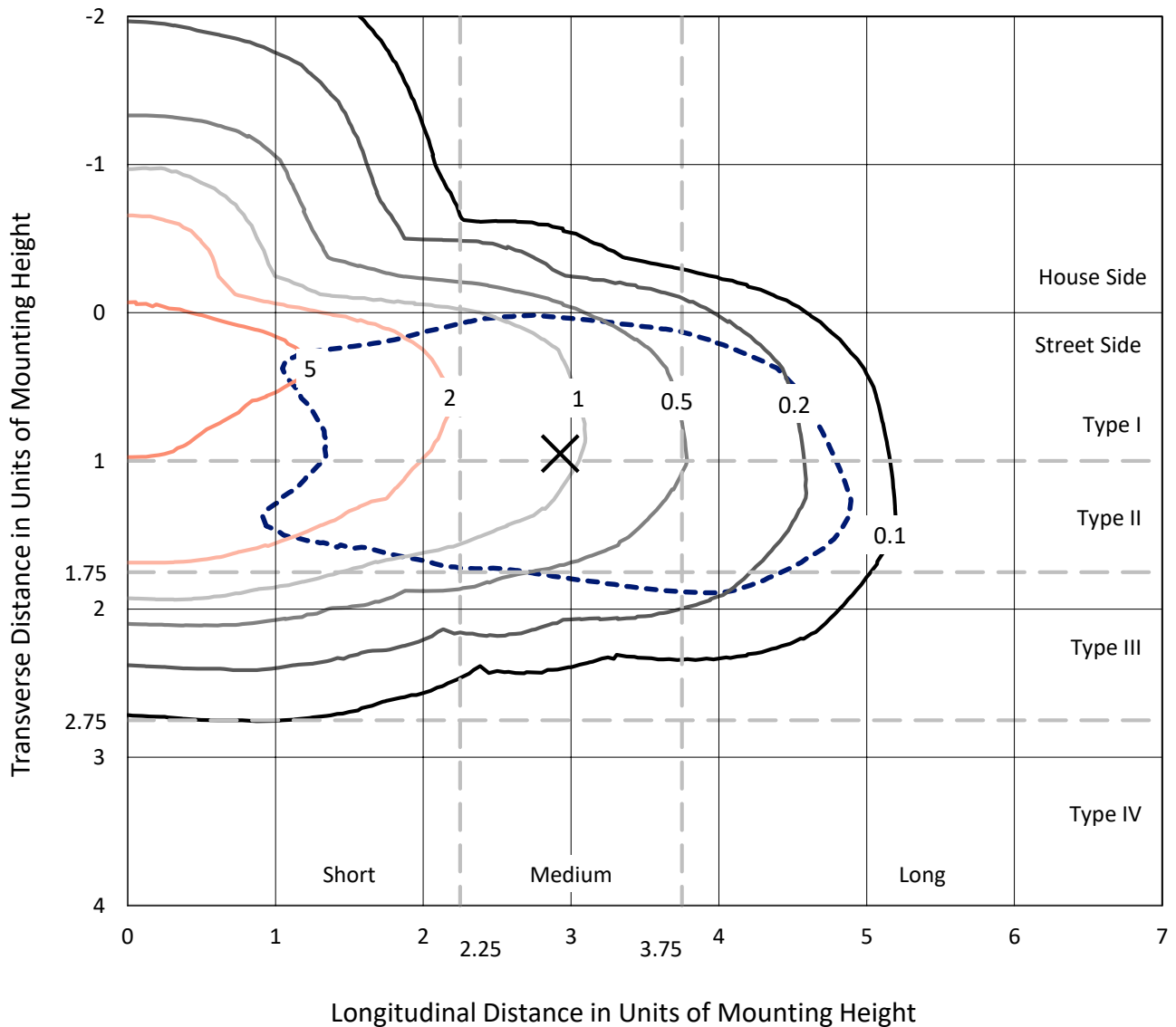
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

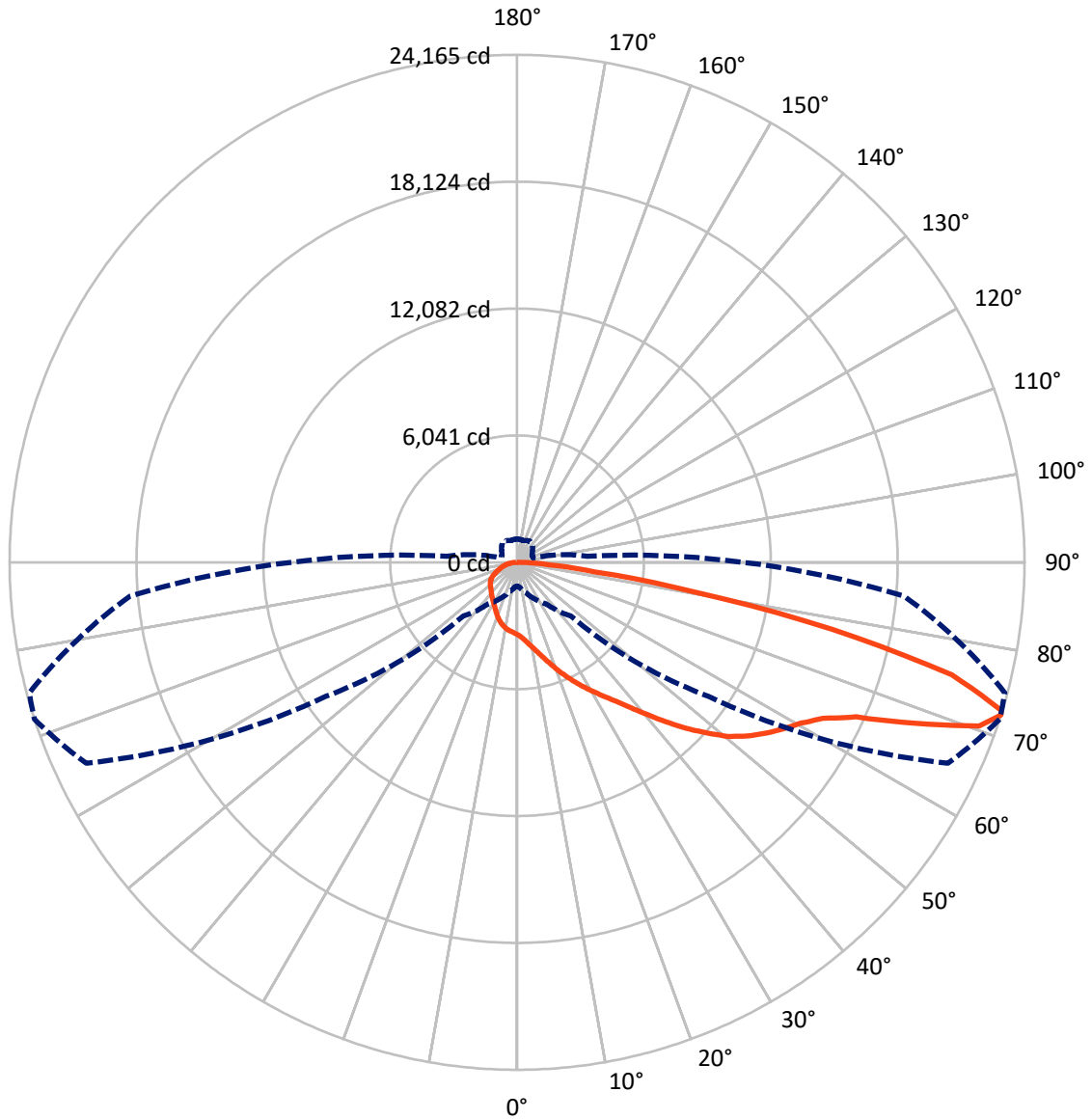
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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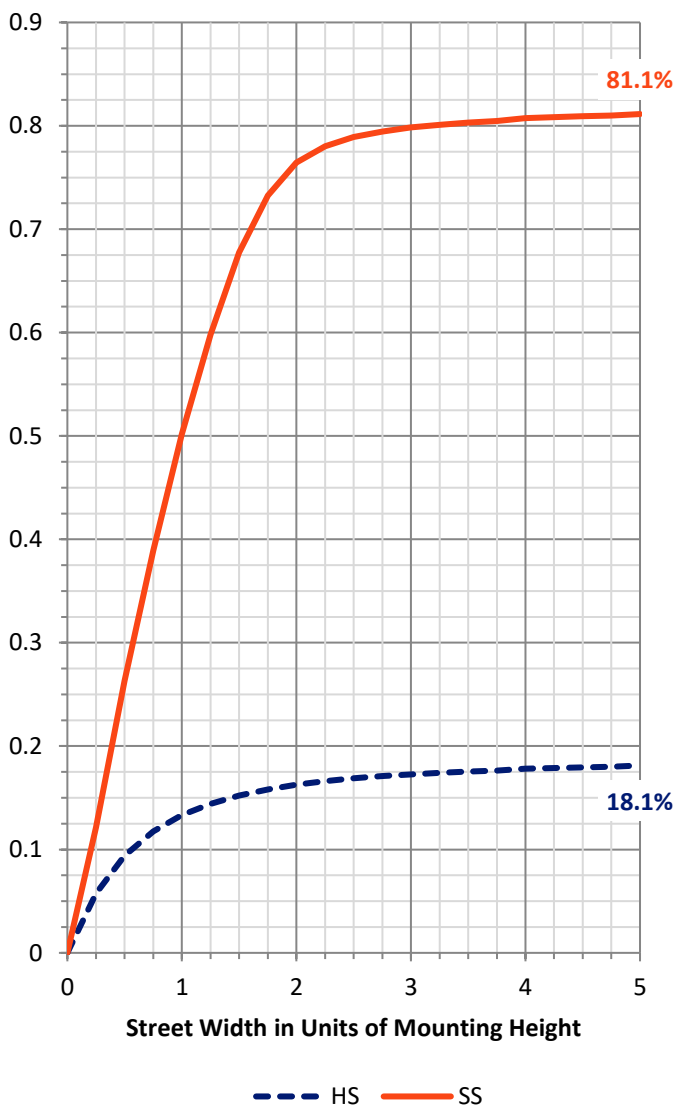
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5189.7	0.0	5189.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22786.3	0.0	22786.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	27976.0	0.0	27976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	1.2
10°-20°	1114.5	4.0
20°-30°	1952.9	7.0
30°-40°	2895.5	10.4
40°-50°	4235.0	15.1
50°-60°	5827.3	20.8
60°-70°	6487.5	23.2
70°-80°	4395.9	15.7
80°-90°	722.5	2.6
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°	27976.0	100.0
0°-180°	27976.0	100.0

Coefficient of Utilization

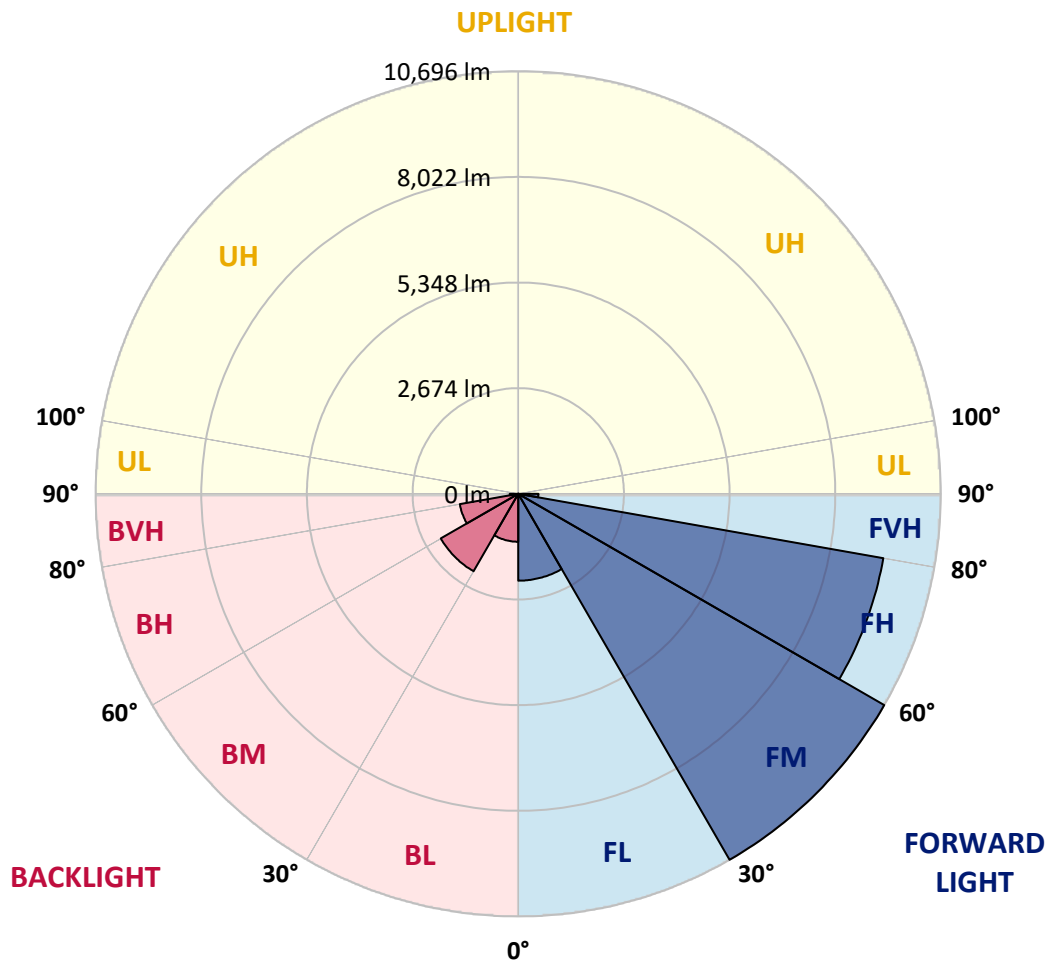


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.1	7.9			
FM (30°-60°)	10695.6	38.2			
FH (60°-80°)	9382.0	33.5			G4/12000
FVH (80°-90°)	509.6	1.8			G4/750
BL (0°-30°)	1213.2	4.3	B3/2500		
BM (30°-60°)	2262.2	8.1	B2/2500		
BH (60°-80°)	1501.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	212.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8
2.5°	3802.0	3796.3	3776.0	3776.0	3737.5	3704.8	3643.1	3601.7	3552.6	3535.2	3477.4
5°	4170.0	4171.9	4146.9	4129.6	4072.7	4003.4	3898.4	3803.0	3707.6	3669.1	3550.6
7.5°	4479.2	4475.4	4468.6	4454.2	4401.2	4329.9	4188.3	4046.7	3906.1	3848.3	3644.1
10°	4677.7	4686.3	4692.1	4698.9	4676.7	4625.6	4491.7	4319.3	4135.3	4056.3	3755.8
12.5°	4777.8	4793.3	4820.2	4866.5	4903.1	4897.3	4800.0	4617.0	4398.3	4299.1	3895.5
15°	4836.6	4856.8	4899.2	4982.1	5085.1	5143.9	5117.9	4952.2	4708.5	4586.1	4066.0
17.5°	4873.2	4889.6	4955.1	5065.9	5219.0	5375.1	5443.5	5304.7	5059.1	4919.4	4261.5
20°	4898.2	4910.8	4992.6	5122.7	5321.1	5569.7	5760.4	5725.7	5445.4	5264.3	4465.7
22.5°	4954.1	4964.7	5042.7	5173.7	5393.4	5714.1	6065.7	6117.8	5852.9	5647.7	4684.4
25°	5110.2	5110.2	5175.7	5267.2	5473.3	5839.4	6323.9	6554.1	6269.0	6030.1	4886.7
27.5°	5407.8	5404.9	5429.0	5460.8	5616.9	5966.5	6554.1	6939.4	6700.5	6439.5	5083.2
30°	5760.4	5779.6	5782.5	5767.1	5840.3	6125.5	6767.0	7345.9	7135.0	6853.7	5284.5
32.5°	6214.1	6226.6	6212.2	6161.1	6150.5	6350.9	6976.0	7771.7	7605.0	7286.2	5468.5
35°	6790.1	6766.0	6720.8	6616.7	6517.5	6652.4	7214.9	8197.5	8132.9	7809.3	5721.8
37.5°	7407.6	7408.5	7352.7	7116.7	6979.9	7037.7	7544.4	8680.1	8771.6	8431.5	6046.5
40°	7902.7	7928.7	7963.4	7653.2	7476.0	7555.9	7963.4	9239.7	9526.8	9169.4	6469.3
42.5°	8248.5	8278.4	8376.6	8182.0	7998.1	8146.4	8456.6	9837.0	10374.5	10020.9	6964.5
45°	8614.6	8630.9	8700.3	8616.5	8499.0	8833.2	9012.4	10455.4	11271.3	10928.3	7518.4
47.5°	8999.9	9017.2	9088.5	9032.6	8971.0	9474.8	9592.3	11038.2	12130.5	11925.3	8109.8
50°	9475.7	9487.3	9554.7	9453.6	9472.8	9958.3	10110.5	11572.8	13031.2	12821.2	8703.2
52.5°	10125.0	10127.9	10221.3	10129.8	10039.2	10312.8	10556.5	12076.6	13737.2	13638.0	9296.6
55°	10633.6	10664.4	10970.7	10951.5	10899.4	10634.5	10929.3	12556.3	14367.2	14414.4	9926.5
57.5°	10309.0	10429.4	11049.7	11487.0	11912.8	11435.0	11433.1	13096.7	14952.9	15176.4	10619.1
60°	9028.8	9192.5	10106.7	11076.7	12408.9	12827.9	12479.2	13756.5	15544.4	15931.6	11487.0
62.5°	6448.2	6717.9	7956.6	9505.6	11728.8	13750.7	14608.0	14803.6	16348.7	16806.2	12615.0
65°	3259.7	3463.9	4502.3	6368.2	9370.7	13147.7	16921.8	17096.2	17746.4	18152.9	14351.8
67.5°	1980.5	2057.6	2564.2	3542.0	5745.0	10241.5	17677.0	20917.5	20451.3	20667.0	16828.4
70°	1459.4	1516.2	1832.1	2352.3	3304.0	6009.9	15359.4	23644.5	23338.2	23314.1	18658.6
72°	1136.7	1178.1	1457.4	1900.5	2415.9	3605.5	11132.6	22637.9	24164.7	24043.3	18491.0
72.5°	1077.9	1114.5	1368.8	1788.8	2283.0	3268.4	10009.4	21958.8	24105.0	24050.1	18274.3
75°	848.6	874.7	1013.4	1383.3	1786.9	1854.3	5484.9	17017.2	21383.7	22272.8	16436.3
77.5°	702.2	706.1	779.3	1006.6	1392.9	1311.0	2694.3	11806.8	15312.2	16289.9	11643.1
80°	572.2	577.0	611.7	706.1	1053.8	970.0	1279.2	6789.2	8573.1	8583.7	5536.9
82.5°	455.6	456.6	495.1	516.3	757.1	693.6	733.1	3187.5	3746.2	3603.6	1990.1
85°	320.8	314.0	483.6	423.8	495.1	445.0	404.6	1261.9	1548.9	1481.5	623.2
87.5°	106.9	110.8	214.8	274.5	289.0	252.4	180.1	483.6	584.7	579.9	197.5
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°	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8	3441.8
2.5°	3459.1	3428.3	3383.0	3332.9	3293.4	3253.0	3223.1	3207.7	3190.4	3175.9	3193.3
5°	3495.7	3437.9	3341.6	3247.2	3177.8	3116.2	3071.9	3048.8	3027.6	3013.1	3015.0
7.5°	3555.4	3462.0	3300.2	3162.4	3066.1	2999.6	2954.4	2938.9	2925.5	2921.6	2926.4
10°	3619.0	3481.3	3245.3	3062.2	2952.4	2897.5	2877.3	2887.9	2897.5	2906.2	2915.8
12.5°	3691.3	3498.6	3165.3	2944.7	2851.3	2830.1	2850.3	2896.6	2930.3	2950.5	2963.0
15°	3785.7	3514.0	3072.8	2827.2	2764.6	2788.7	2857.1	2937.0	2995.8	3033.3	3039.1
17.5°	3872.4	3513.1	2954.4	2708.7	2694.3	2764.6	2867.7	2980.4	3059.4	3112.3	3122.9
20°	3961.9	3487.1	2816.6	2593.1	2623.0	2738.6	2872.5	3008.3	3103.7	3165.3	3179.8
22.5°	4045.8	3441.8	2665.4	2488.1	2563.3	2703.9	2854.2	2991.9	3087.3	3137.4	3152.8
25°	4102.6	3362.8	2512.2	2399.5	2510.3	2661.5	2794.5	2905.2	2976.5	3001.6	3005.4
27.5°	4131.5	3259.7	2367.7	2322.5	2455.4	2592.2	2683.7	2738.6	2758.8	2756.9	2753.0
30°	4135.3	3123.9	2243.5	2259.8	2391.8	2490.1	2533.4	2522.8	2496.8	2452.5	2456.3
32.5°	4122.8	2970.7	2139.4	2200.1	2310.9	2365.8	2367.7	2316.7	2247.3	2177.0	2157.7
35°	4126.7	2820.5	2047.9	2132.7	2212.6	2236.7	2214.6	2139.4	2045.0	1954.5	1935.2
37.5°	4169.0	2689.5	1968.9	2054.7	2103.8	2109.6	2077.8	1998.8	1929.4	1840.8	1833.1
40°	4270.2	2596.0	1893.8	1967.0	1994.9	1997.8	1952.6	1896.7	1902.5	1855.3	1854.3
42.5°	4452.3	2555.6	1827.3	1875.5	1892.8	1898.6	1863.9	1828.3	1878.4	1847.6	1837.0
45°	4687.3	2565.2	1771.5	1785.9	1817.7	1844.7	1823.5	1780.1	1799.4	1665.5	1621.2
47.5°	4958.9	2626.8	1727.2	1708.8	1763.8	1814.8	1782.1	1716.6	1648.2	1515.2	1490.2
50°	5276.8	2722.2	1686.7	1632.7	1705.0	1774.4	1741.6	1648.2	1545.1	1480.6	1471.9
52.5°	5608.2	2838.8	1646.2	1548.9	1630.8	1743.5	1727.2	1632.7	1505.6	1442.0	1430.5
55°	5983.9	2956.3	1595.2	1451.7	1550.9	1729.1	1720.4	1576.9	1475.7	1440.1	1431.4
57.5°	6451.0	3090.2	1527.8	1350.5	1475.7	1677.1	1650.1	1543.2	1444.9	1417.9	1415.0
60°	7059.8	3287.7	1430.5	1242.6	1384.2	1597.1	1591.3	1494.0	1395.8	1376.5	1372.7
62.5°	7973.0	3614.2	1296.6	1134.7	1282.1	1461.3	1514.3	1427.6	1343.8	1342.8	1344.7
65°	9389.0	4105.5	1151.1	1040.3	1179.0	1346.7	1424.7	1359.2	1290.8	1310.1	1312.9
67.5°	11030.5	4512.9	1008.5	947.9	1074.1	1237.8	1343.8	1290.8	1220.5	1270.6	1271.5
70°	11576.6	4148.8	883.3	856.4	965.2	1132.8	1256.1	1215.7	1144.4	1194.5	1189.6
72°	10773.3	3349.3	802.4	787.0	883.3	1046.1	1178.1	1145.3	1075.0	1108.7	1096.2
72.5°	10519.9	3193.3	782.2	769.7	861.2	1024.0	1157.9	1128.0	1057.7	1086.6	1075.0
75°	9384.2	2773.3	672.4	675.3	751.4	916.1	1044.2	1034.6	962.3	965.2	961.3
77.5°	6806.5	2033.5	566.4	585.7	639.6	805.3	929.6	923.8	844.8	830.3	827.5
80°	3158.6	1037.4	461.4	470.1	525.9	673.3	792.8	785.1	721.5	703.2	692.6
82.5°	1081.8	493.2	346.8	352.6	407.5	542.3	687.8	683.0	630.0	594.3	572.2
85°	386.3	245.6	242.7	237.0	290.9	426.7	599.2	573.1	495.1	421.9	420.0
87.5°	125.2	105.0	125.2	124.3	169.5	289.0	435.4	370.9	359.3	298.6	292.8
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)