

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: P194110

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-T4W-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9869 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

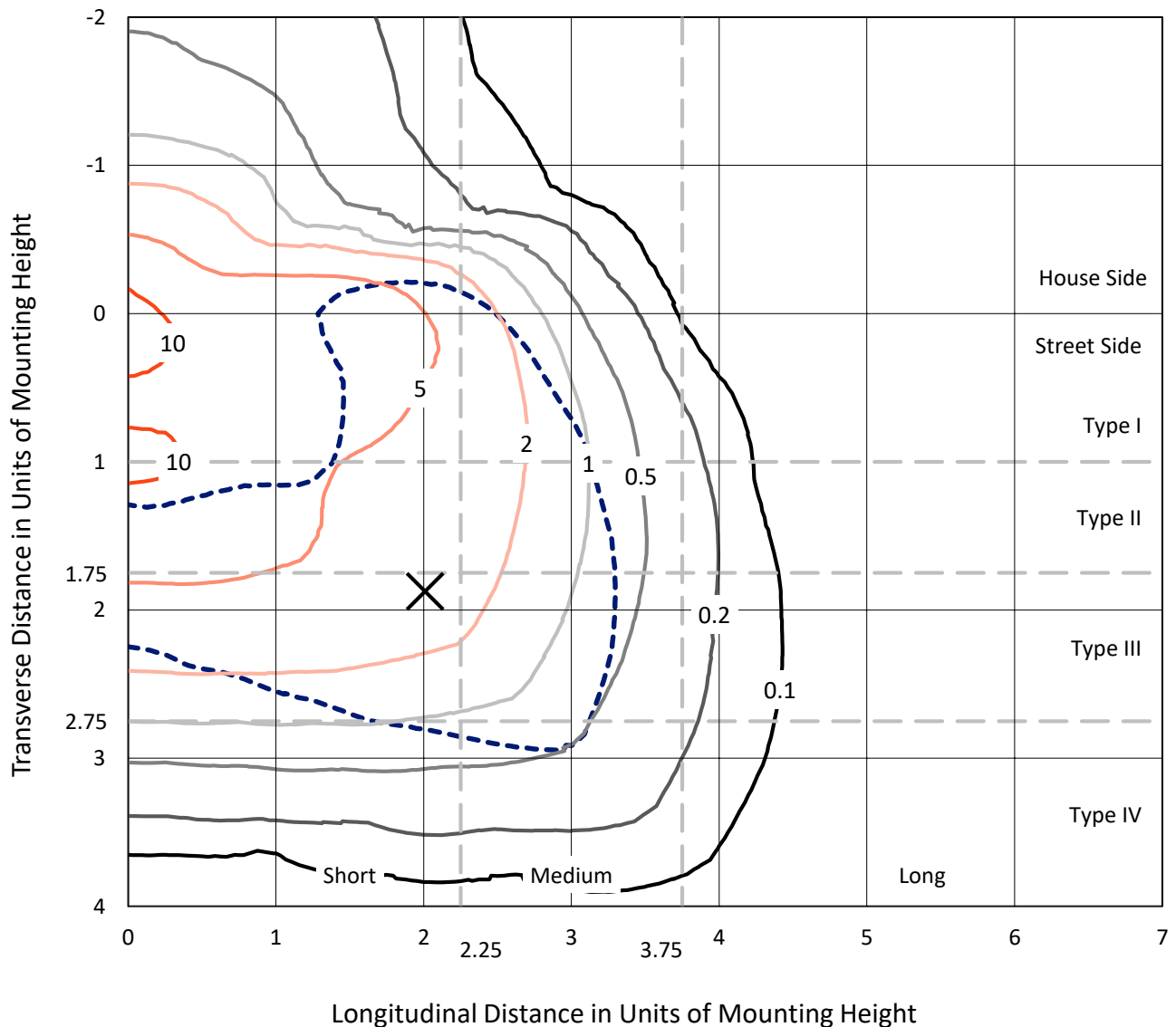
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

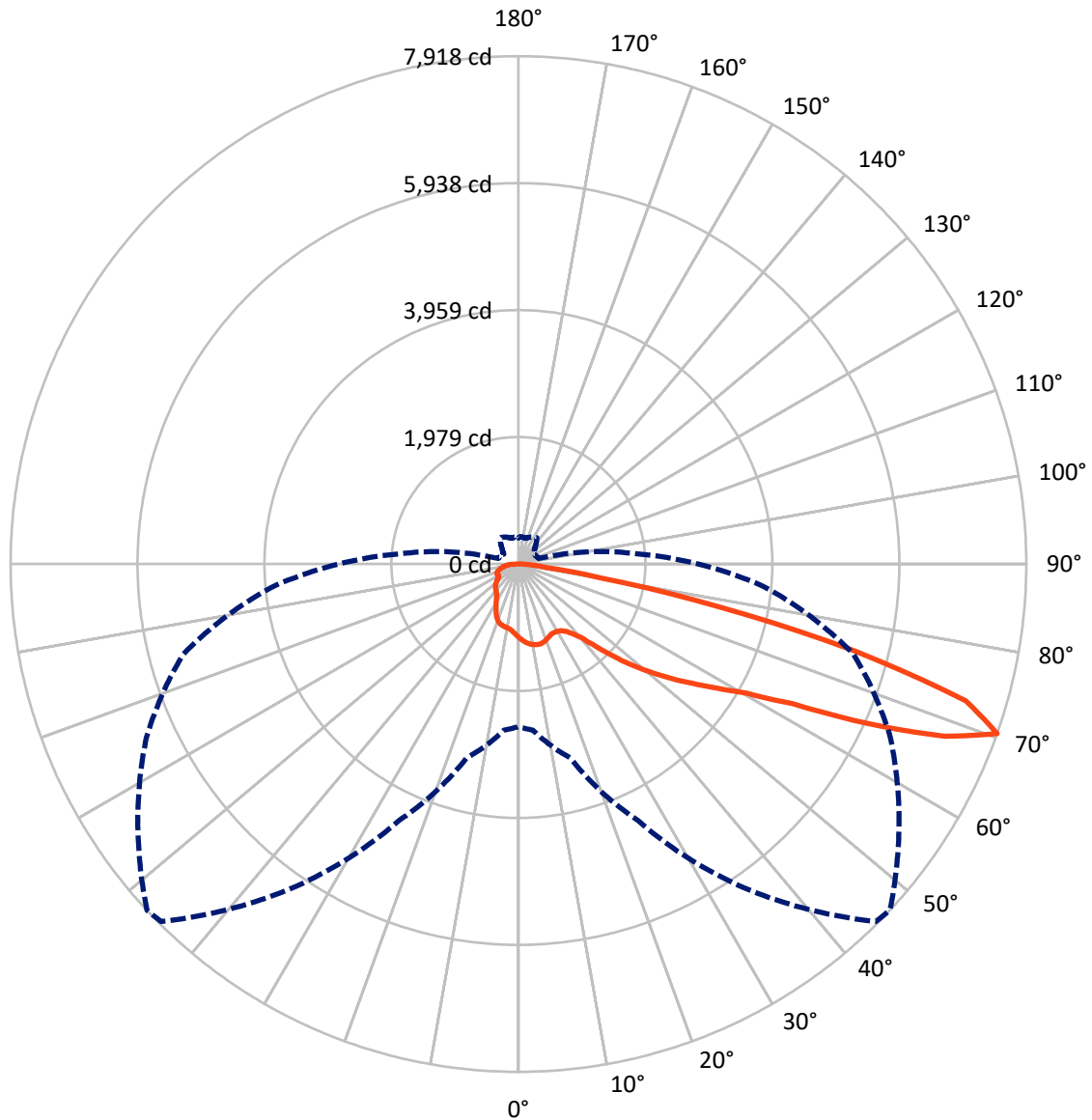
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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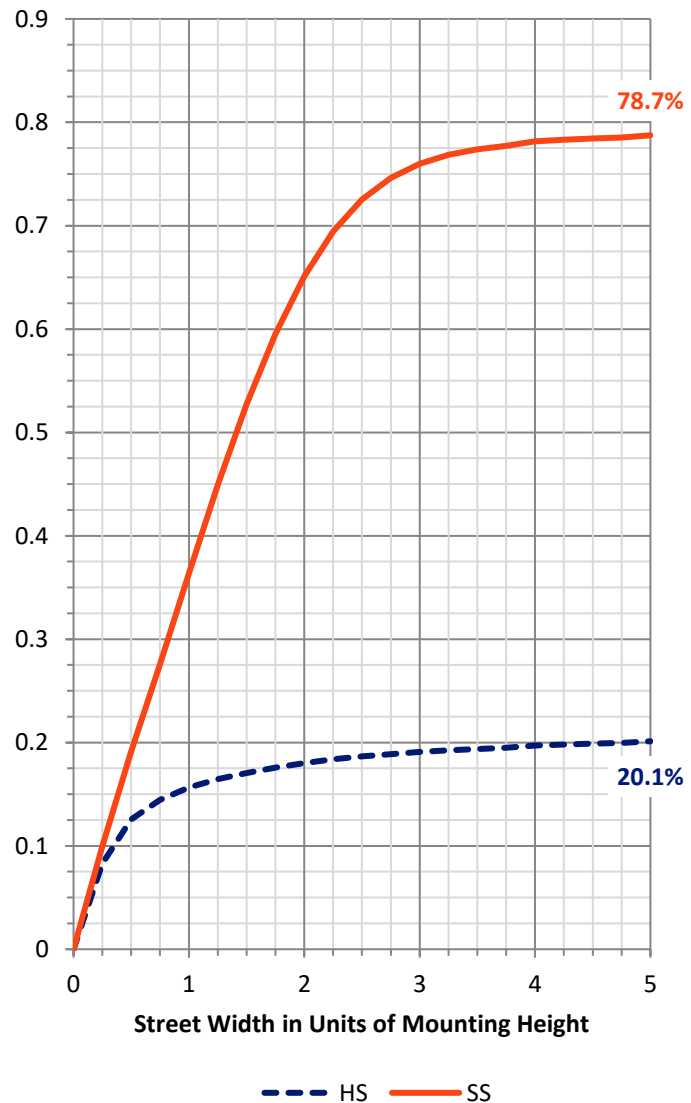
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2058.9	0.0	2058.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7810.1	0.0	7810.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9869.0	0.0	9869.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.1
10°-20°	321.9	3.3
20°-30°	475.3	4.8
30°-40°	690.9	7.0
40°-50°	1243.4	12.6
50°-60°	2154.1	21.8
60°-70°	3074.5	31.2
70°-80°	1578.3	16.0
80°-90°	221.0	2.2
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°	9869.0	100.0
0°-180°	9869.0	100.0



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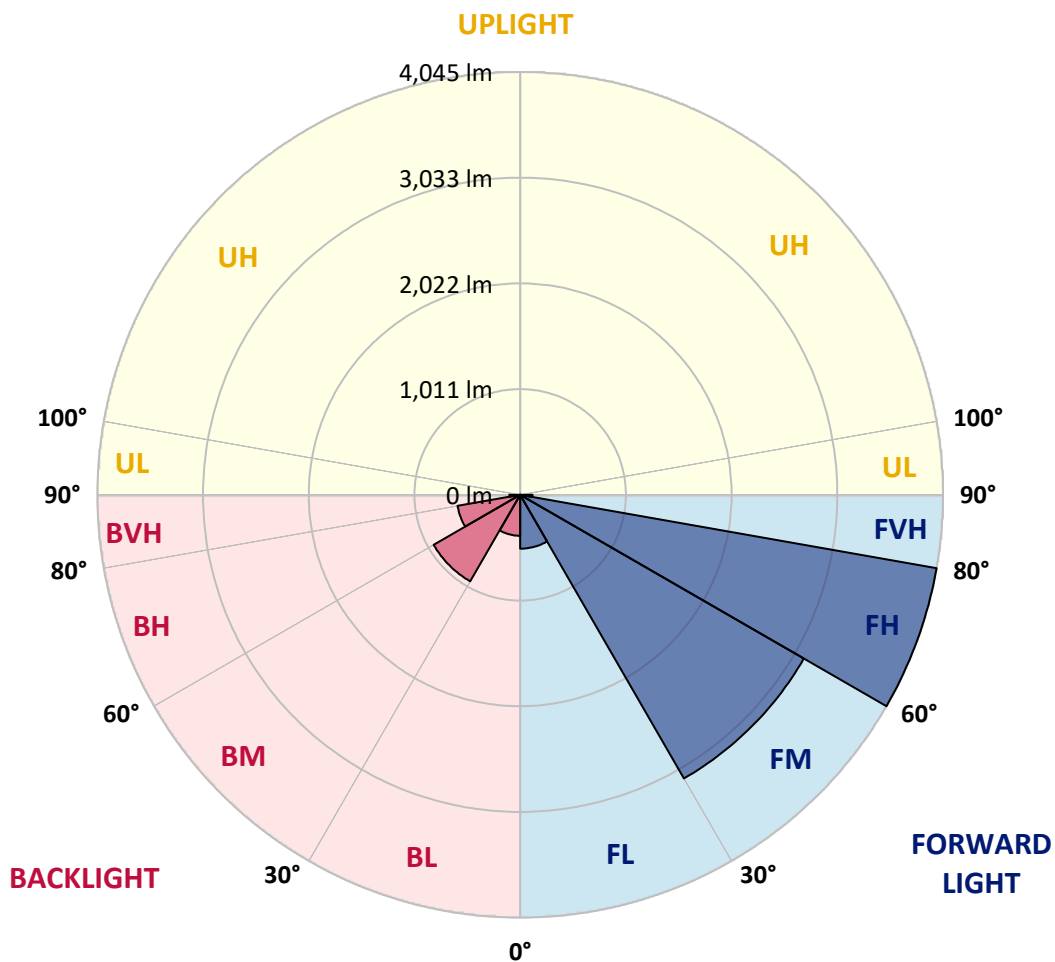
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.9	5.2			
FM	(30°-60°)	3132.7	31.7			
FH	(60°-80°)	4044.6	41.0			G2/5000
FVH	(80°-90°)	117.9	1.2			G2/225
BL	(0°-30°)	392.0	4.0	B1/500		
BM	(30°-60°)	955.7	9.7	B1/1000		
BH	(60°-80°)	608.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	103.1	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1212.3	1209.9	1209.0	1207.0	1204.6	1192.6	1190.2	1181.6	1169.6	1157.1	1144.2
5°	1292.0	1291.6	1286.3	1276.7	1261.3	1234.9	1228.7	1207.5	1179.2	1151.8	1124.5
7.5°	1362.1	1357.8	1347.7	1328.5	1301.6	1265.6	1257.0	1227.7	1188.8	1151.4	1114.4
10°	1413.5	1411.1	1389.0	1362.6	1327.6	1287.7	1277.6	1245.0	1202.2	1154.7	1108.6
12.5°	1442.8	1438.0	1412.5	1380.9	1339.1	1300.2	1290.1	1257.0	1209.0	1154.7	1100.5
15°	1440.9	1437.5	1412.1	1377.5	1335.2	1301.2	1292.0	1258.9	1207.5	1149.9	1089.9
17.5°	1402.5	1403.9	1382.3	1348.2	1313.6	1287.7	1279.5	1248.8	1197.9	1140.3	1077.4
20°	1335.2	1342.0	1327.6	1297.3	1278.1	1260.3	1255.1	1229.1	1183.0	1126.4	1064.0
22.5°	1268.0	1274.3	1268.5	1243.1	1240.2	1229.6	1226.7	1208.0	1170.1	1117.7	1055.8
25°	1218.6	1224.3	1223.4	1201.3	1209.9	1209.4	1207.0	1197.9	1167.2	1117.7	1057.2
27.5°	1205.1	1207.0	1205.1	1185.0	1197.0	1206.6	1204.6	1203.2	1175.8	1131.7	1075.5
30°	1251.2	1248.3	1233.5	1192.6	1203.7	1217.1	1215.2	1216.2	1201.8	1168.2	1116.3
32.5°	1435.1	1422.1	1375.1	1260.3	1231.1	1238.3	1239.2	1255.1	1257.5	1224.3	1179.7
35°	1710.2	1695.8	1634.8	1441.8	1316.0	1291.1	1291.1	1315.1	1329.5	1305.0	1278.1
37.5°	2001.7	1985.8	1953.2	1693.4	1494.6	1382.8	1380.4	1397.2	1417.8	1423.6	1430.3
40°	2333.0	2316.1	2325.3	1975.7	1743.8	1541.7	1507.6	1495.6	1551.3	1588.3	1642.0
42.5°	2695.5	2687.8	2691.1	2290.2	2027.6	1779.4	1730.9	1668.9	1736.2	1801.9	1914.8
45°	3031.1	3037.8	3034.4	2626.8	2343.5	2069.4	2018.0	1898.0	1963.7	2076.6	2260.5
47.5°	3324.9	3297.1	3340.3	2994.6	2697.4	2393.9	2330.6	2169.7	2236.4	2375.7	2686.8
50°	3681.6	3677.8	3614.4	3485.3	3125.2	2719.9	2636.9	2450.6	2554.3	2747.8	3224.1
52.5°	4056.6	3987.0	3928.9	3867.0	3578.9	3054.1	2952.3	2730.5	2927.8	3171.3	3879.0
55°	4133.4	4102.2	4174.3	4278.4	4016.3	3401.2	3282.7	3081.5	3348.4	3655.2	4634.2
57.5°	4297.6	4297.2	4446.0	4631.8	4466.7	3769.5	3650.0	3505.4	3821.4	4209.8	5436.0
60°	4408.6	4439.8	4716.3	5076.9	4908.9	4194.9	4085.0	3994.7	4359.1	4829.6	6183.1
62.5°	4466.7	4508.9	4886.3	5257.4	5534.0	4903.1	4793.1	4663.0	5070.7	5509.5	6620.0
65°	4225.1	4308.2	4859.9	5413.5	6081.3	6051.1	6001.6	5773.1	5960.3	6046.8	6462.1
67.5°	3556.8	3641.8	4284.2	5268.0	6472.2	7158.3	7168.8	6778.5	6507.7	6092.9	5433.2
70°	2534.1	2600.9	3132.4	4416.7	6174.5	7881.8	7917.8	7241.8	6398.7	5403.4	3795.9
72.5°	1203.2	1244.0	1747.2	2874.5	4899.7	7221.6	7291.3	6650.3	5440.8	4000.4	2070.8
75°	442.2	454.7	590.6	1222.9	2841.9	5325.6	5407.7	4767.2	3606.7	1991.6	788.9
77.5°	265.0	273.2	331.3	516.1	1117.7	3044.0	3165.5	2592.7	1576.3	741.3	387.9
80°	185.3	191.1	237.7	321.2	528.1	1160.0	1268.0	1058.2	628.0	469.1	282.3
82.5°	125.3	128.2	167.1	217.0	351.0	414.4	447.0	470.5	423.5	349.1	179.1
85°	82.1	85.0	113.3	143.1	223.3	214.1	218.9	277.0	309.2	237.2	99.4
87.5°	47.1	49.0	68.2	76.3	109.5	90.7	91.7	146.0	197.8	159.9	60.5
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°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1140.8	1134.5	1120.6	1112.0	1103.8	1101.9	1098.5	1098.1	1097.6	1097.6	1096.1
5°	1115.3	1104.8	1083.2	1071.2	1061.1	1060.1	1059.6	1062.0	1063.0	1064.0	1062.5
7.5°	1099.0	1084.6	1057.7	1040.4	1028.4	1025.6	1030.4	1041.4	1048.6	1051.5	1050.0
10°	1088.9	1071.2	1040.0	1021.2	1011.2	1009.7	1016.0	1028.9	1043.8	1049.6	1049.1
12.5°	1077.4	1057.2	1024.1	1004.4	998.7	1001.6	1009.7	1021.7	1037.1	1046.2	1046.7
15°	1065.9	1042.4	1008.3	991.0	988.6	992.4	1000.1	1009.2	1021.2	1030.4	1031.3
17.5°	1052.0	1027.5	993.4	975.6	973.7	975.6	976.1	980.9	988.6	997.2	999.6
20°	1037.1	1012.1	976.6	958.8	950.2	942.5	933.9	934.8	937.2	945.9	947.8
22.5°	1026.5	1001.6	963.6	939.1	916.1	893.0	875.8	873.4	874.3	881.5	883.9
25°	1027.5	1001.1	960.3	918.0	867.6	830.6	807.6	803.7	803.3	808.5	811.9
27.5°	1046.2	1019.8	972.7	896.4	814.8	760.0	735.6	732.7	728.8	730.3	734.1
30°	1088.0	1063.5	1003.0	874.3	757.6	690.9	665.5	662.6	657.3	654.9	657.8
32.5°	1156.2	1136.0	1047.2	853.2	700.5	631.9	605.9	599.7	596.3	593.4	595.8
35°	1269.5	1260.8	1106.2	830.1	650.1	586.2	562.7	553.1	548.3	553.6	557.4
37.5°	1447.1	1451.9	1183.5	794.1	611.2	556.0	536.3	525.3	518.1	522.4	526.7
40°	1698.7	1702.1	1269.0	743.2	577.6	538.2	517.1	507.0	496.9	489.3	488.8
42.5°	2029.0	1994.9	1353.0	688.0	538.7	527.2	503.7	491.2	475.8	454.7	450.4
45°	2420.8	2301.3	1416.9	624.6	495.0	513.7	488.8	471.5	447.5	424.4	422.0
47.5°	2872.1	2630.2	1448.1	558.9	454.2	494.1	470.5	443.2	412.9	401.4	399.9
50°	3423.3	3020.5	1463.0	495.0	418.7	468.1	444.1	412.0	386.5	384.1	382.7
52.5°	4050.9	3490.1	1467.8	442.7	389.4	434.5	422.5	391.3	371.1	373.1	373.1
55°	4707.7	3975.0	1402.5	404.8	362.5	399.9	408.1	383.1	366.3	374.0	376.9
57.5°	5310.7	4404.7	1197.0	375.5	337.1	373.5	402.8	390.8	379.3	410.5	412.4
60°	5773.6	4658.7	894.0	349.1	318.3	364.4	416.8	420.1	423.0	497.4	507.5
62.5°	5870.6	4574.2	614.6	328.4	309.7	372.1	442.2	442.7	439.3	491.2	497.4
65°	5425.5	4039.8	447.0	316.9	302.5	386.0	463.8	453.7	431.6	471.0	459.5
67.5°	4308.7	3043.5	372.1	308.2	291.9	385.1	486.9	463.8	427.3	461.4	442.7
70°	2796.8	1840.3	331.3	301.0	279.4	366.8	500.3	462.8	414.8	429.2	407.2
72.5°	1364.5	822.9	303.9	290.5	266.5	341.4	499.8	454.2	401.9	400.9	388.9
75°	533.9	376.9	279.0	274.6	244.4	312.6	486.4	441.7	386.5	371.1	366.8
77.5°	312.6	268.9	247.3	251.1	218.0	283.8	466.7	420.1	365.4	347.1	342.3
80°	227.6	201.2	210.8	217.0	186.3	254.9	440.3	393.7	341.9	351.0	344.3
82.5°	146.0	129.6	170.9	177.2	155.1	225.7	411.5	365.9	308.7	280.4	273.7
85°	74.4	82.1	127.2	134.9	119.6	185.3	376.4	328.9	271.3	233.3	237.2
87.5°	41.8	56.2	81.1	90.7	84.5	142.6	305.4	271.3	221.3	180.0	158.4
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)