

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: STREETWORKS

Report Number: P963164

Luminaire Tested: **NVN-SB2D-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18909.2 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 147.6
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



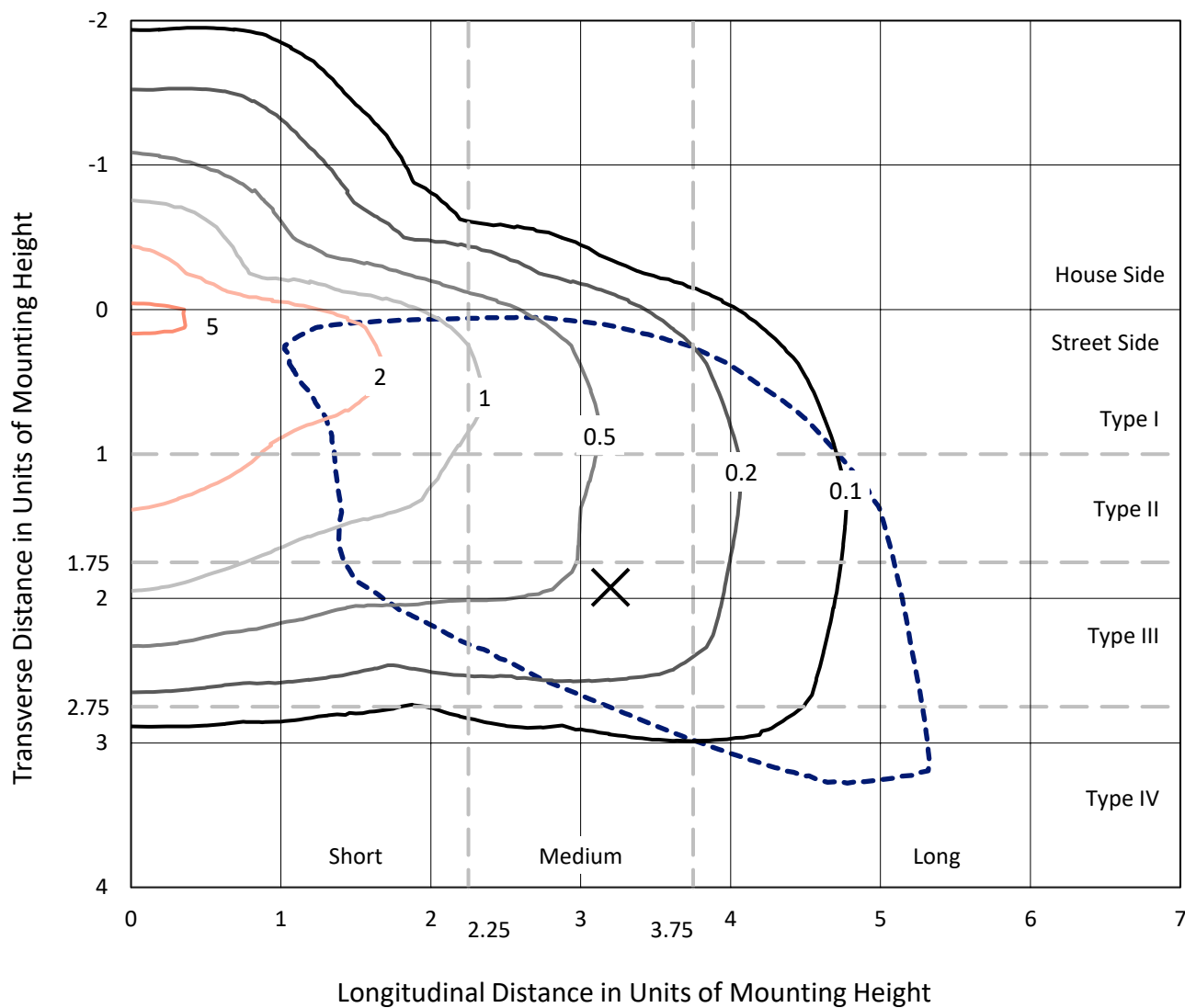
REPORT NUMBER: P963164

CATALOG NUMBER: NVN-SB2D-835-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



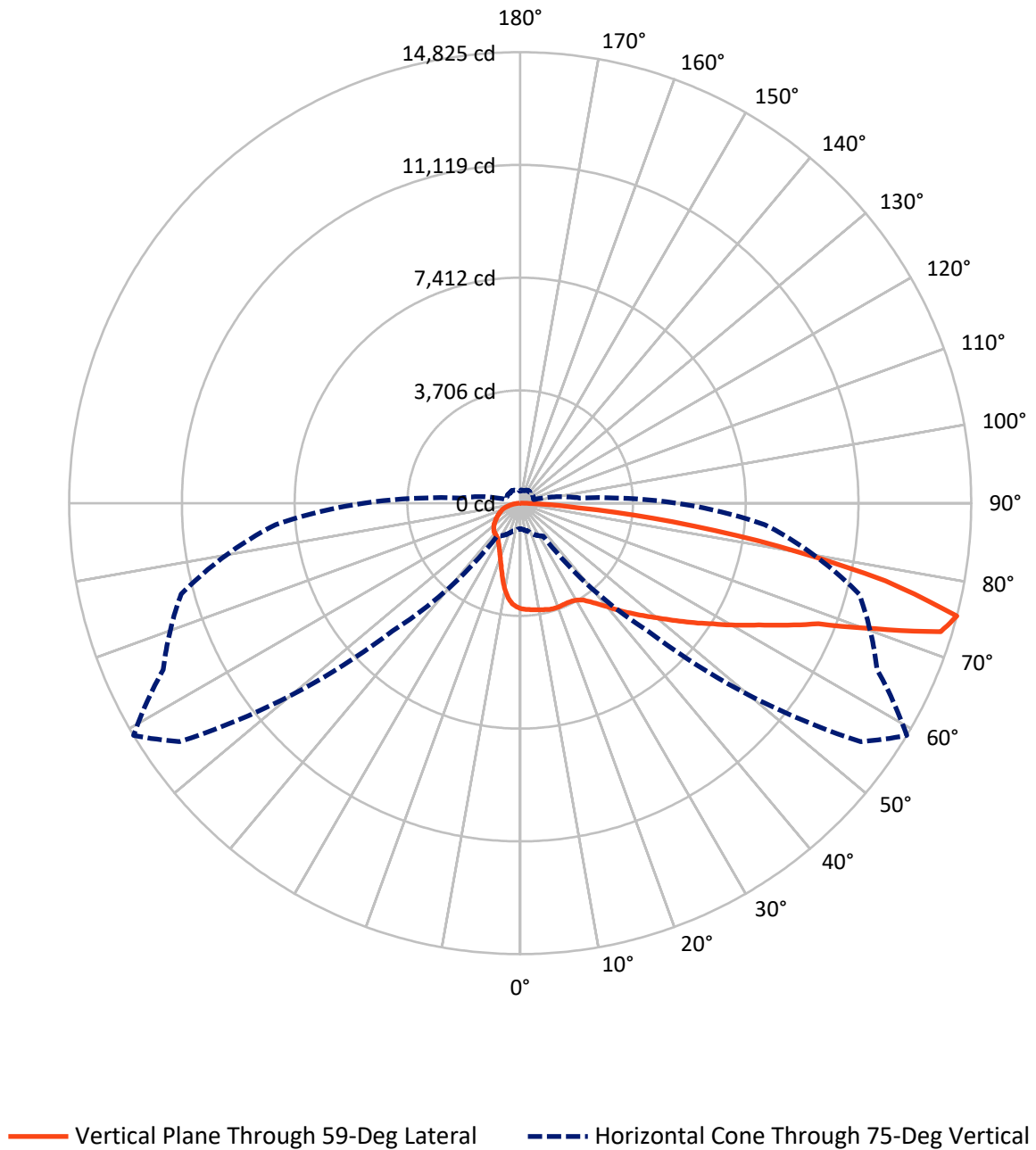
Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type IV - Medium - N/A

REPORT NUMBER: P963164

CATALOG NUMBER: NVN-SB2D-835-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P963164

CATALOG NUMBER: NVN-SB2D-835-U-SL3

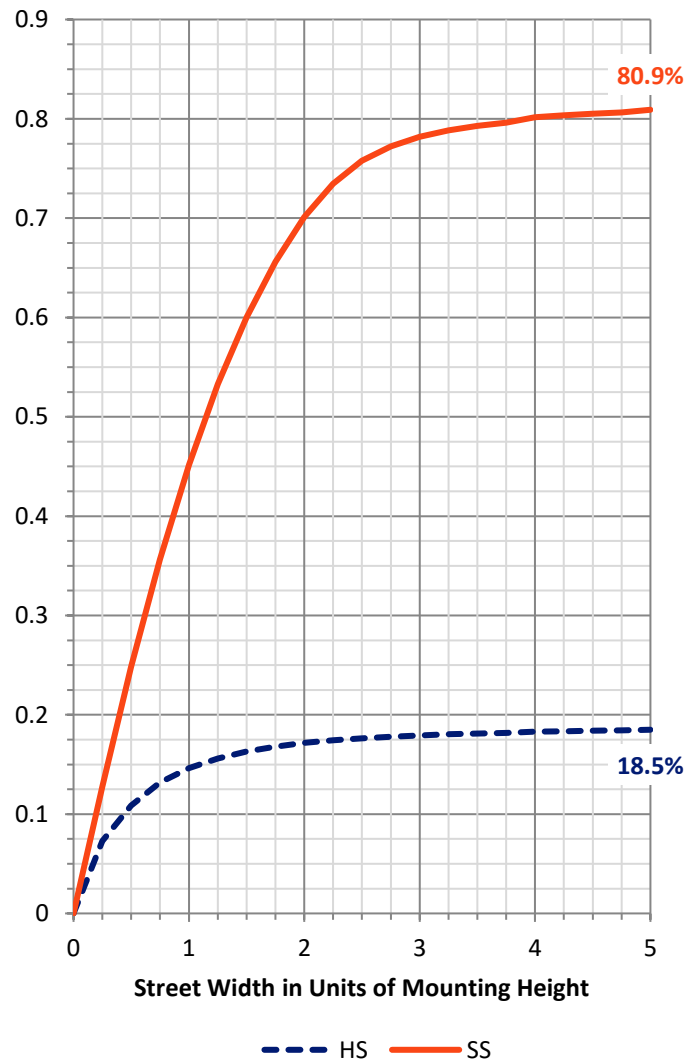
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3546.5	0.0	3546.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15362.6	0.0	15362.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	18909.2	0.0	18909.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	1.6
10°-20°	795.5	4.2
20°-30°	1208.3	6.4
30°-40°	1796.0	9.5
40°-50°	2671.0	14.1
50°-60°	3625.6	19.2
60°-70°	4426.3	23.4
70°-80°	3473.7	18.4
80°-90°	601.7	3.2
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°	18909.2	100.0
0°-180°	18909.2	100.0

Coefficient of Utilization



REPORT NUMBER: P963164

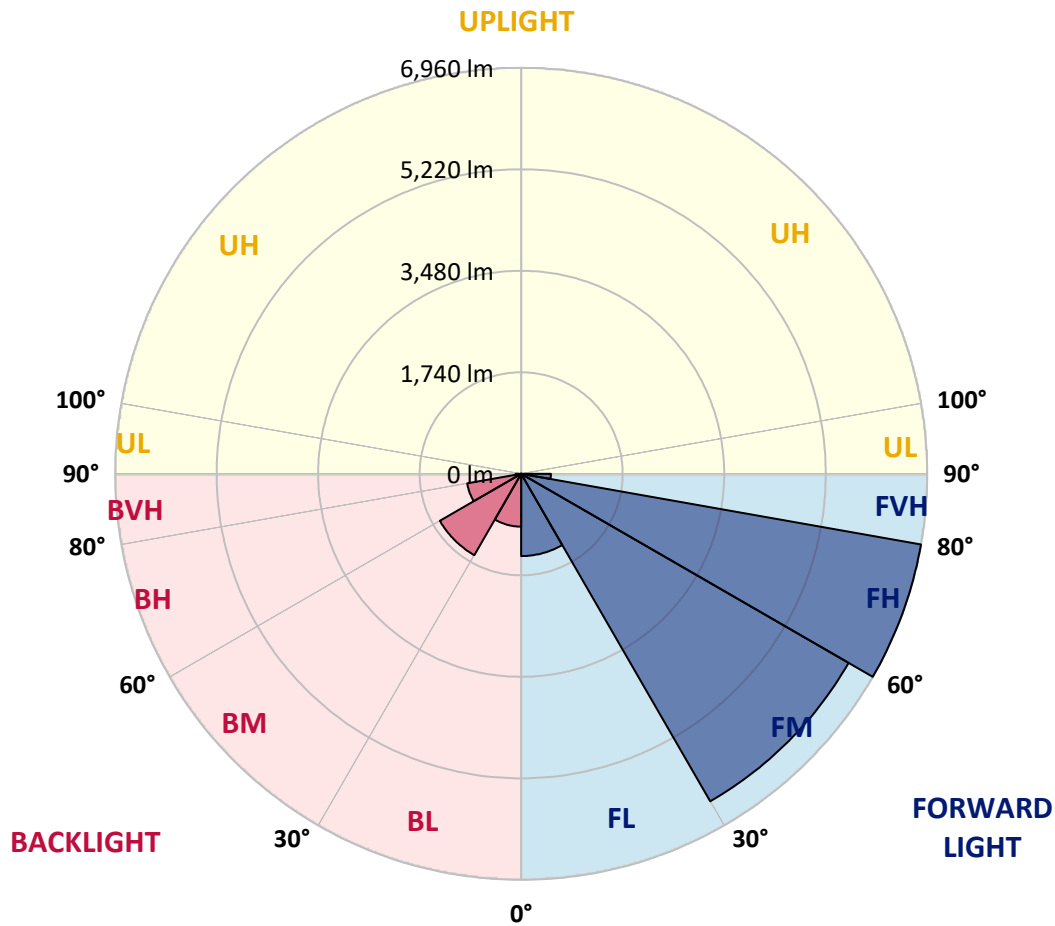
CATALOG NUMBER: NVN-SB2D-835-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.9	7.5			
FM	(30°-60°)	6482.9	34.3			
FH	(60°-80°)	6960.3	36.8			G3/7500
FVH	(80°-90°)	509.6	2.7			G4/750
BL	(0°-30°)	905.0	4.8	B2/1000		
BM	(30°-60°)	1609.8	8.5	B2/2500		
BH	(60°-80°)	939.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	92.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



REPORT NUMBER: P963164

CATALOG NUMBER: NVN-SB2D-835-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8
2.5°	3500.3	3488.1	3500.3	3495.1	3493.1	3489.1	3490.0	3497.2	3493.1	3498.2	3480.9
5°	3476.8	3469.7	3481.9	3478.8	3492.1	3494.1	3507.3	3515.5	3520.6	3521.6	3508.4
7.5°	3438.2	3431.1	3448.4	3462.7	3491.0	3499.2	3526.7	3539.9	3547.0	3559.2	3539.9
10°	3296.8	3293.7	3336.5	3390.4	3457.5	3499.2	3541.0	3563.3	3574.5	3607.1	3584.6
12.5°	3046.6	3050.6	3106.6	3210.3	3344.6	3478.8	3557.2	3589.8	3607.1	3647.8	3637.5
15°	2807.5	2806.4	2867.5	2978.4	3166.6	3389.4	3565.4	3621.3	3650.7	3710.8	3702.7
17.5°	2669.2	2665.1	2707.8	2792.3	2967.2	3252.0	3545.0	3638.5	3701.7	3776.9	3769.8
20°	2643.8	2635.6	2658.0	2699.6	2823.8	3101.4	3492.1	3638.5	3742.4	3840.0	3836.0
22.5°	2736.3	2723.1	2713.9	2708.9	2763.8	2977.4	3432.1	3626.3	3802.3	3930.6	3923.4
25°	2922.5	2902.1	2855.3	2809.5	2793.2	2921.5	3379.2	3623.4	3891.8	4052.5	4026.1
27.5°	3223.5	3198.1	3103.5	2993.7	2895.0	2950.0	3355.7	3641.6	3990.5	4181.8	4128.9
30°	3596.8	3569.5	3450.4	3281.5	3104.5	3055.7	3385.3	3695.5	4116.7	4353.7	4250.0
32.5°	3931.5	3901.0	3799.3	3627.4	3388.3	3238.8	3478.8	3798.2	4315.0	4592.7	4432.0
35°	4228.5	4193.0	4101.4	3942.8	3736.2	3496.2	3647.8	3980.4	4596.8	4981.3	4679.2
37.5°	4519.5	4477.8	4378.1	4210.3	4065.8	3838.9	3880.6	4214.3	4971.1	5453.3	5006.7
40°	4845.0	4785.0	4664.0	4498.1	4357.8	4240.7	4186.8	4501.2	5351.5	5980.3	5415.7
42.5°	5160.4	5103.4	4959.0	4817.5	4641.5	4608.0	4541.9	4836.9	5767.6	6559.0	5830.7
45°	5500.0	5431.9	5257.0	5078.0	4967.0	4852.1	4885.7	5172.6	6175.5	7149.0	6266.0
47.5°	5818.5	5742.2	5535.7	5336.4	5275.3	5057.6	5201.1	5541.8	6599.7	7747.2	6697.4
50°	5990.4	5915.1	5743.2	5563.2	5515.3	5310.9	5542.8	5947.7	7044.2	8343.2	7111.3
52.5°	6133.8	6052.4	5827.6	5727.9	5713.7	5586.6	5964.0	6411.5	7488.8	8870.1	7511.1
55°	6286.4	6195.8	5909.0	5819.5	5884.6	5895.8	6463.3	6937.4	7958.7	9383.8	7888.5
57.5°	6462.4	6347.4	5987.3	5896.8	6051.4	6257.9	7037.1	7482.6	8420.5	9859.9	8224.2
60°	6628.2	6512.2	6137.9	6019.9	6231.5	6678.0	7695.3	8142.8	8943.3	10284.0	8541.5
62.5°	6660.8	6565.1	6257.9	6256.9	6475.6	7168.3	8474.4	8809.1	9400.1	10703.2	8826.4
65°	6097.2	6037.1	5855.1	6247.8	6825.5	7874.3	9342.2	9661.5	9980.9	11069.4	9076.6
67.5°	4640.6	4648.7	4635.5	5393.2	6542.8	8888.4	10598.4	10574.0	10698.0	11480.3	9364.5
70°	2122.0	2169.7	2481.0	3723.0	5241.7	9005.4	12675.6	12359.1	11598.3	12012.3	9613.7
72.5°	1146.4	1183.1	1310.2	1803.5	3151.4	8006.5	14227.8	14452.6	12795.6	12370.3	9340.1
75°	841.2	861.6	950.1	1146.4	1323.4	5950.7	13671.3	14824.9	12945.1	11535.2	8065.5
77.5°	629.7	638.8	711.0	908.4	677.4	3137.1	10923.8	12277.8	11081.6	9477.4	5957.8
80°	456.7	466.9	520.8	681.5	475.1	1147.4	7500.9	8617.9	7589.4	6041.2	2969.2
82.5°	315.3	319.4	342.8	463.8	331.6	445.6	4256.0	5053.6	4236.7	2119.9	801.6
85°	190.2	195.3	205.5	270.6	188.2	211.6	1837.1	1900.1	1266.4	506.6	249.2
87.5°	78.3	83.4	91.5	113.9	74.2	59.0	303.1	380.5	237.0	148.5	77.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963164

CATALOG NUMBER: NVN-SB2D-835-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8	3470.8
2.5°	3475.9	3468.7	3449.3	3422.9	3398.5	3368.0	3354.8	3343.6	3333.4	3314.1	3304.9
5°	3497.2	3477.8	3426.0	3358.8	3282.6	3199.1	3117.7	3061.8	3014.0	2978.4	2948.9
7.5°	3529.7	3493.1	3398.5	3261.2	3086.3	2907.2	2745.5	2630.6	2544.0	2512.5	2457.6
10°	3563.3	3519.5	3354.8	3112.7	2810.5	2534.9	2320.3	2202.3	2133.1	2110.7	2076.1
12.5°	3603.0	3538.9	3286.7	2906.2	2502.3	2200.3	2013.1	1943.9	1908.3	1896.0	1899.1
15°	3661.0	3555.2	3183.9	2647.8	2208.4	1956.1	1835.1	1787.3	1768.9	1767.9	1772.0
17.5°	3704.7	3558.2	3024.2	2371.1	1982.6	1808.6	1708.9	1690.6	1702.8	1721.2	1728.3
20°	3753.6	3530.7	2814.6	2118.9	1823.9	1679.5	1637.7	1649.9	1679.5	1705.9	1715.0
22.5°	3788.1	3480.9	2561.4	1922.5	1686.5	1605.1	1603.1	1628.5	1644.8	1658.0	1665.2
25°	3818.6	3396.4	2292.8	1757.8	1573.7	1560.5	1582.8	1574.6	1563.4	1574.6	1581.8
27.5°	3841.0	3263.2	2052.8	1613.4	1494.2	1529.9	1516.7	1498.3	1497.3	1503.5	1513.6
30°	3833.9	3085.2	1855.4	1476.0	1438.4	1472.9	1441.4	1438.4	1435.3	1438.4	1449.6
32.5°	3833.9	2882.8	1703.9	1381.4	1402.7	1389.5	1386.4	1379.3	1367.1	1366.1	1379.3
35°	3855.2	2680.4	1573.7	1330.6	1373.2	1341.7	1343.8	1326.5	1301.0	1288.8	1301.0
37.5°	3899.0	2517.6	1444.4	1306.1	1321.3	1320.3	1312.2	1282.7	1238.0	1199.2	1212.5
40°	4004.8	2469.8	1356.0	1294.9	1296.9	1309.1	1287.8	1230.8	1129.1	1066.0	1074.2
42.5°	4170.6	2550.2	1336.6	1267.4	1280.6	1292.8	1251.2	1118.9	1046.7	1009.1	1009.1
45°	4381.2	2690.5	1378.3	1227.7	1242.0	1263.4	1139.3	1076.2	1043.7	1044.7	1049.8
47.5°	4647.7	2838.0	1455.6	1193.2	1186.0	1198.3	1065.0	1026.3	981.6	992.8	1021.3
50°	4955.9	2987.6	1528.9	1146.4	1124.0	1084.3	1017.2	980.6	923.6	897.2	904.3
52.5°	5289.5	3132.0	1558.4	1089.5	1056.9	1011.2	984.6	939.9	870.7	827.0	825.9
55°	5605.8	3263.2	1525.8	1021.3	989.7	954.2	950.1	922.6	848.4	787.3	787.3
57.5°	5904.9	3373.1	1444.4	952.1	921.6	900.3	927.7	914.5	820.9	742.6	738.5
60°	6158.2	3448.4	1326.5	881.9	860.6	849.4	891.0	887.0	782.3	694.7	691.7
62.5°	6359.6	3477.8	1196.3	814.8	809.7	789.4	840.2	840.2	733.4	648.0	644.9
65°	6517.3	3449.3	1064.1	748.7	758.8	728.4	778.2	772.0	681.5	606.3	602.2
67.5°	6656.7	3355.7	917.6	683.6	706.9	668.3	713.1	698.8	624.5	564.6	560.5
70°	6718.7	3138.1	750.7	618.5	647.0	609.4	648.0	621.6	560.5	519.8	511.7
72.5°	6220.3	2608.1	591.0	550.3	574.7	544.2	577.8	547.2	491.3	473.0	457.8
75°	5146.1	1957.1	454.7	476.0	494.4	471.0	493.3	471.0	420.1	433.4	395.6
77.5°	3737.3	1321.3	347.9	397.7	405.9	393.7	413.0	387.6	341.7	338.8	323.5
80°	1858.4	774.1	272.6	314.4	311.3	303.1	325.5	313.3	274.6	290.9	287.9
82.5°	538.1	331.6	198.3	220.8	214.6	216.7	233.0	239.0	358.0	355.0	363.2
85°	168.8	130.2	119.0	123.1	117.0	120.0	137.4	272.6	252.3	147.5	159.7
87.5°	43.8	44.8	29.5	31.6	32.6	38.6	43.8	165.8	79.3	51.9	54.9
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)